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August 2, 2005

Ms. Marie Tipsord
Illinois Pollution Control Board
100 West Randolph, Suite 11-500
Chicago, Illinois 60601

Re: Rulemakings R04-22 and R04-23

Dear Ms. Tipsord:

Please find attached the red-line version of USI's proposed modifications to Subpart H as you requested at the July 27th hearing. The attached red-line version is consistent with the version of Subpart H provided to you at the hearing on July 27th with the following exceptions:

1. A number of grammatical and typographical errors have been corrected.
2. A definition has been added to Section 734.115 for "Alternative Expedited Unit Rate"
3. The provisions of Section 734.630 (aaa) have been modified so that the provisions of that subparagraph are consistent with the proposed modifications to Subpart H.
4. The reference to Appendix E in the first paragraph of Section 734.860 has been modified to clarify that Section 734.860 pertains to only those Products and Services listed in Sections 734.810 through 734.840.
5. The Bill Method Table in Appendix F relating to Drilling, Well Installation and Well Abandonment has been modified to clarify the Unit of Measure for each Service.
6. The tables in Appendix F relating to the conventional remediation services have been modified to clarify the Bill Method and Unit of Measure for each service listed.
7. The narrative provided in Appendix F relating to professional oversight of Asphalt and Paving Services mistakenly referred to "tank removal or abandonment". That mistake has been corrected.

Should you have any questions or comments, please do not hesitate to contact me.

Sincerely,
United Science Industries, Inc.

A handwritten signature in black ink, appearing to read "Jay P. Koch", is written over the typed name.

Jay P. Koch
President

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE G: WASTE DISPOSAL
CHAPTER I: POLLUTION CONTROL BOARD
SUBCHAPTER d: UNDERGROUND INJECTION CONTROL AND UNDERGROUND
STORAGE TANK PROGRAMS

PART 734
PETROLEUM UNDERGROUND STORAGE TANKS
(RELEASES REPORTED ON OR AFTER JUNE 24, 2002)

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AUTHORITY: Implementing Sections 22.12 and 57 - 57.17 and authorized by Sections 5, 22, 27, and 57.14A of the Environmental Protection Act [415 ILCS 5/5, 22, 22.12, 27, and 57 -

57.17]

SOURCE: Adopted in R at Ill. Reg. , effective_

NOTE: Italics denotes statutory language.

SUBPART A: GENERAL

Section 734.100 Applicability

- a) This Part applies to owners or operators of any underground storage tank system used to contain petroleum and for which a release is reported to Illinois Emergency Management Agency (IEMA) on or after the effective date of these rules in accordance with Office of State Fire Marshal (OSFM) regulations. It does not apply to owners or operators of sites for which the OSFM does not require a report to IEMA or for which the OSFM has issued or intends to issue a certificate of removal or abandonment pursuant to Section 57.5 of the Act [415 ILCS 5/57.5].
 - 1) For releases reported on or after June 24, 2002, but prior to the effective date of these rules, and for owners and operators electing prior to the effective date of these rules to proceed in accordance with Title XVI of the Act as amended by P.A. 92-0554, the Agency may deem that one or more requirements of this Part have been satisfied, based upon activities conducted prior to the effective date of these rules, even though the activities were not conducted in strict accordance with the requirements of this Part. For example, an owner or operator that adequately defined the extent of on-site contamination prior to the effective date of these rules may be deemed to have satisfied Sections 734.210(h) and 734.315 even though sampling was not conducted in strict accordance with those Sections.
 - 2) Costs incurred pursuant to a budget approved prior to the effective date of these rules must be reimbursed in accordance with the amounts approved in the budget and must not be subject to the maximum payment amounts set forth in Subpart H of this Part.
- b) Owners or operators of any underground storage tank system used to contain petroleum and for which a release was reported to the proper State authority prior to June 24, 2002, may elect to proceed in accordance with this Part pursuant to Section 734.105 of this Part.
- c) Upon the receipt of a corrective action order issued by the OSFM on or after June 24, 2002, and pursuant to Section 57.5(g) of the Act [415 ILCS 5/57.5(g)], where the OSFM has determined that a release poses a threat to human health or the environment, the owner or operator of any underground storage tank system used to contain petroleum and taken out of operation before January 2, 1974, or any

underground storage tank system used exclusively to store heating oil for consumptive use on the premises where stored and which serves other than a farm or residential unit, must conduct corrective action in accordance with this Part.

- d) Owners or operators subject to this Part by law or by election must proceed expeditiously to comply with all requirements of the Act and the regulations and to obtain the No Further Remediation Letter signifying final disposition of the site for purposes of this Part. The Agency may use its authority pursuant to the Act and Section 734.125 of this Part to expedite investigative, preventive, or corrective action by an owner or operator or to initiate such action.
- e) The following underground storage tank systems are excluded from the requirements of this Part:
 - 1) Equipment or machinery that contains petroleum substances for operational purposes, such as hydraulic lift tanks and electrical equipment tanks.
 - 2) Any underground storage tank system whose capacity is 110 gallons or less.
 - 3) Any underground storage tank system that contains a de minimis concentration of petroleum substances.
 - 4) Any emergency spill or overfill containment underground storage tank system that is expeditiously emptied after use.
 - 5) Any wastewater treatment tank system that is part of a wastewater treatment facility regulated under Section 402 or 307(b) of the Clean Water Act [33 USC 1251 *et seq.* (1972)].
 - 6) Any UST system holding hazardous waste listed or identified under Subtitle C of the Solid Waste Disposal Act [42 USC 3251 *et seq.*] or a mixture of such hazardous waste or other regulated substances.

Section 734.105 Election to Proceed under Part 734

- a) Owners or operators of any underground storage tank system used to contain petroleum and for which a release was reported to the proper State authority prior to June 24, 2002, may elect to proceed in accordance with this Part by submitting to the Agency a written statement of such election signed by the owner or operator. Such election must be submitted on forms prescribed and provided by the Agency and, if specified by the Agency in writing, in an electronic format. Corrective action must then follow the requirements of this Part. The election must be effective upon receipt by the Agency and must not be withdrawn once made.

- b) Except as provided in Section 734.100(c) of this Part, owners or operators of underground storage tanks used exclusively to store heating oil for consumptive use on the premises where stored and that serve other than a farm or residential unit may elect to proceed in accordance with this Part by submitting to the Agency a written statement of such election signed by the owner or operator. Such election must be submitted on forms prescribed and provided by the Agency and, if specified by the Agency in writing, in an electronic format. Corrective action must then follow the requirements of this Part. The election must be effective upon receipt by the Agency and must not be withdrawn once made.
- c) Owners and operators electing pursuant to this Section to proceed in accordance with this Part must submit with their election a summary of the activities conducted to date and a proposed starting point for compliance with this Part. The Agency must review and approve, reject, or modify the submission in accordance with the procedures contained in Subpart E of this Part. The Agency may deem a requirement of this Part to have been met, based upon activities conducted prior to an owner's or operator's election, even though the activities were not conducted in strict accordance with the requirement. For example, an owner or operator that adequately defined the extent of on-site contamination prior to the election may be deemed to have satisfied Sections 734.210(h) and 734.315 even though sampling was not conducted in strict accordance with those Sections.
- d) If the owner or operator elects to proceed pursuant to this Part, corrective action costs incurred in connection with the release and prior to the notification of election must be payable from the Fund in the same manner as was allowable under the law applicable to the owner or operator prior to the notification of election. Corrective action costs incurred after the notification of election must be payable from the Fund in accordance with this Part.
- e) This Section does not apply to any release for which the Agency has issued a No Further Remediation Letter.

Section 734.110 Severability

If any provision of this Part or its application to any person or under any circumstances is adjudged invalid, such adjudication must not affect the validity of this Part as a whole or of any portion not adjudged invalid.

Section 734.115 Definitions

Except as stated in this Section, or unless a different meaning of a word or term is clear from the context, the definitions of words or terms in this Part must be the same as those applied to the same words or terms in the Environmental Protection Act [415 ILCS 5].

"Act" means the Environmental Protection Act [415 ILCS 5].

"Agency" means the Illinois Environmental Protection Agency.

"Alternative Expedited Unit Rate: A unit rate that is approved by the Agency pursuant to the provisions of subparagraph (a) of Section 734.805. The three types of Alternative Expedited Unit Rates are Justified Unit Rates, Bid Unit Rates, Extraordinary Unit Rates. An Alternative Expedited Unit Rate shall be considered reasonable for purposes of reimbursement.

"Alternative Technology" means a process or technique, other than conventional technology, used to perform a corrective action with respect to soils contaminated by releases of petroleum from an underground storage tank.

"Bid Unit Rate" The lowest bid price per Unit of Measure for a Product or Service that is obtained via competitive bidding pursuant to Section 7343.855. The price may be more than the Maximum Unit Rate. If the Bid Unit Rate is more than the Expedited Unit Rate or the Maximum Unit Rate the Bid Unit Rate shall be presumed reasonable for purposes of reimbursement. If the Bid Unit Rate is less than the Expedited Unit Rate the work may be performed for the Expedited Unit Rate and the Expedited Unit Rate shall be presumed reasonable for purposes of reimbursement.

"Billing Method" The Agency-accepted method for pricing a Standard Product or Service. The acceptable Billing Methods for Standard Products and Services provided in Appendix E are: "unit price" and "time and materials".

"Board" means the Illinois Pollution Control Board.

"Bodily Injury" means bodily injury, sickness, or disease sustained by a person, including death at any time, resulting from a release of petroleum from an underground storage tank [415 ILCS 5/57.2].

"Community water supply" means a public water supply which serves or is intended to serve at least 15 service connections used by residents or regularly serves at least 25 residents [415 ILCS 5/3.145].

"Confirmation of a release" means the confirmation of a release of petroleum in accordance with regulations promulgated by the Office of the State Fire Marshal at 41 Ill. Adm. Code 170.

"Confirmed Release" means a release of petroleum that has been confirmed in accordance with regulations promulgated by the Office of the State Fire Marshal at 41 Ill. Adm. Code 170.

"Conventional Technology" means a process or technique to perform a corrective action by removal, transportation, and disposal of soils contaminated by a release

of petroleum from an underground storage tank in accordance with applicable laws and regulations, but without processing to remove petroleum from the soils.

“Corrective action” means activities associated with compliance with the provisions of Sections 57.6 and 57.7 of the Act [415 ILCS 5/57.2].

“County highway” means county highway as defined in the Illinois Highway Code [605 ILCS 5].

“District road” means district road as defined in the Illinois Highway Code [605 ILCS 5].

“Environmental Land Use Control” means Environmental Land Use Control as defined in 35 Ill. Adm. Code 742.200.

“Expedited Unit Rate” The rate/price per unit of measure of a Product or Service published in Appendix E of this Part. For purposes of administering and making payments from the Fund, the Agency shall presume that a unit price for a Product or Service less than or equal to the Expedited Unit Price is reasonable.

“Extended Cost” The product of the Expedited Unit Rate or allowable Maximum Unit Rate for a Standard Product or Service multiplied by the Reasonable Quantity.

“Extraordinary Unit Rate”: A unit rate for a Product or Service that is approved pursuant to the provisions of Section 734.862

“Federal Landholding Entity” means that federal department, agency, or instrumentality with the authority to occupy and control the day-to-day use, operation, and management of Federally Owned Property.

“Federally Owned Property” means real property owned in fee simple by the United States on which an institutional control is or institutional controls are sought to be placed in accordance with this Part.

“Fill material” means non-native or disturbed materials used to bed and backfill around an underground storage tank [415 ILCS 5/57.2].

“Financial interest” means any ownership interest, legal or beneficial, or being in the relationship of director, officer, employee, or other active participant in the affairs of a party. Financial interest does not include ownership of publicly traded stock.

“Free Product” means a contaminant that is present as a non-aqueous phase liquid for chemicals whose melting point is less than 30° C (e.g., liquid not dissolved in water).

"Full Accounting" means a compilation of documentation to establish, substantiate, and justify the nature and extent of the corrective action costs incurred by an owner or operator.

"Fund" means the Underground Storage Tank Fund [415 ILCS 5/57.2].

"GIS" means Geographic Information System.

"GPS" means Global Positioning System.

"Groundwater" means underground water which occurs within the saturated zone and geologic materials where the fluid pressure in the pore space is equal to or greater than atmospheric pressure [415 ILCS 5/3.210].

"Half-day" means four hours, or a fraction thereof, of billable work time. Half-days must be based upon the total number of hours worked in one calendar day. The total number of half-days per calendar day may exceed two.

"Handling Charges" means administrative, insurance, and interest costs and a reasonable profit for procurement, oversight, and payment of subcontracts and field purchases.

"Heating oil" means petroleum that is No. 1, No. 2, No. 4 -light, No. 4 -heavy, No. 5 -light, No. 5 -heavy or No. 6 technical grades of fuel oil; and other residual fuel oils including navy special fuel oil and bunker c [415 ILCS 5/57.2].

"Highway authority" means the Illinois Department of Transportation with respect to a State highway; the Illinois State Toll Highway Authority with respect to a toll highway; the county board with respect to a county highway or a county unit district road if a discretionary function is involved and the county superintendent of highways if a ministerial function is involved; the highway commissioner with respect to a township or district road not in a county or unit road district; or the corporate authorities of a municipality with respect to a municipal street [605 ILCS 5/2-213].

"Highway Authority Agreement" means an agreement with a highway authority that meets the requirements of 35 Ill. Adm. Code 742.1020.

"IEMA" means the Illinois Emergency Management Agency.

"Indemnification" means indemnification of an owner or operator for the amount of judgment entered against the owner or operator in a court of law, for the amount of any final order or determination made against the owner or operator by any agency of State government or any subdivision thereof, or for the amount of any settlement entered into by the owner or operator, if the judgment, order, determination, or settlement arises out of bodily injury or property damage

suffered as a result of a release of petroleum from an underground storage tank owned or operated by the owner or operator [415 ILCS 5/57.2].

"Indicator contaminants" means the indicator contaminants set forth in Section 734.405 of this Part.

"Institutional Control" means a legal mechanism for imposing a restriction on land use as described in 35 Ill. Adm. Code 742.Subpart J.

"Justified Unit Rate" A price per Unit of Measure for a Product or Service that is greater than the Expedited Unit Rate, but less than the Maximum Unit Rate but that is acceptable for purposes of reimbursement due to the fact that the product or service has been shown to meet the requirements for justification pursuant to the provisions of Section 734.860.

"Land Use Control Memorandum of Agreement" means an agreement entered into between one or more agencies of the United States and the Illinois Environmental Protection Agency that limits or places requirements upon the use of Federally Owned Property for the purpose of protecting human health or the environment, or that is used to perfect a No Further Remediation Letter that contains land use restrictions.

"Licensed Professional Engineer" means a person, corporation or partnership licensed under the laws of the State of Illinois to practice professional engineering [415 ILCS 5/57.2].

"Licensed Professional Geologist" means a person licensed under the laws of the State of Illinois to practice as a professional geologist [415 ILCS 5/57.2].

"Man-made Pathway" means a constructed route that may allow for the transport of mobile petroleum free-liquid or petroleum-based vapors including but not limited to sewers, utility lines, utility vaults, building foundations, basements, crawl spaces, drainage ditches, or previously excavated and filled areas.

"Maximum Unit Rate" The maximum price per unit of measure that the Agency may pay from the Fund for Standard Products and Services listed in Appendix E or pursuant to the provisions of Section 734.800 (b) (ii). This unit rate is equal to the average costs of the Product or Service from the IEPA's database, plus two standard deviations. The Maximum Unit Rate is not published and available on a confidential basis to the LUST Advisory Committee, the Agency and the Board.

"Monitoring Well" means a water well intended for the purpose of determining groundwater quality or quantity.

"Natural Pathway" means a natural route for the transport of mobile petroleum free-liquid or petroleum-based vapors including but not limited to soil,

groundwater, sand seams and lenses, and gravel seams and lenses.

“Non-community water supply” means a public water supply that is not a community water supply [415 ILCS 5/3.145].

“Occurrence” means an accident, including continuous or repeated exposure to conditions, that results in a sudden or nonsudden release from an underground storage tank [415 ILCS 5/57.2].

“OSFM” means the Office of the State Fire Marshal.

“Operator” means any person in control of, or having responsibility for, the daily operation of the underground storage tank. (Derived from 42 USC 6991)

BOARD NOTE: A person who voluntarily undertakes action to remove an underground storage tank system from the ground must not be deemed an “operator” merely by the undertaking of such action.

“Owner” means:

In the case of an underground storage tank in use on November 8, 1984, or brought into use after that date, any person who owns an underground storage tank used for the storage, use, or dispensing of regulated substances;

In the case of any underground storage tank in use before November 8, 1984, but no longer in use on that date, any person who owned such underground storage tank immediately before the discontinuation of its use. (Derived from 42 USC 6991)

“Perfect” or “Perfected” means recorded or filed for record so as to place the public on notice, or as otherwise provided in Sections 734.715(c) and (d) of this Part.

“Person” means, for the purposes of interpreting the definitions of the terms “owner” or “operator,” an individual, trust, firm, joint stock company, joint venture, consortium, commercial entity, corporation (including a government corporation), partnership, association, State, municipality, commission, political subdivision of a State, or any interstate body and must include the United States Government and each department, agency, and instrumentality of the United States. (Derived from 42 USC 6991)

“Petroleum” means petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60°F and 14.7 pounds per square inch absolute). (Derived from 42 USC 6991)

“Phase of Work” The significant milestones of work to be completed pursuant to this Part. These are the Early Action Phase, the Site Investigation Phase and the Corrective Action Phase.

“Potable” means generally fit for human consumption in accordance with accepted water supply principles and practices [415 ILCS 5/3.340].

“Practical quantitation limit” (“PQL”) means the lowest concentration that can be reliably measured within specified limits of precision and accuracy for a specific laboratory analytical method during routine laboratory operating conditions in accordance with “Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods,” EPA Publication No. SW-846, incorporated by reference at Section 734.120 of this Part. For filtered water samples, PQL also means the Method Detection Limit or Estimated Detection Limit in accordance with the applicable method revision in: “Methods for the Determination of Metals in Environmental Samples,” EPA Publication No. EPA/600/4-91/010; “Methods for the Determination of Metals in Environmental Samples, Supplement I,” EPA Publication No. EPA/600/R-94/111; “Methods for the Determination of Organic Compounds in Drinking Water,” EPA Publication No. EPA/600/4-88/039; “Methods for the Determination of Organic Compounds in Drinking Water, Supplement II,” EPA Publication No. EPA/600/R-92/129; or “Methods for the Determination of Organic Compounds in Drinking Water, Supplement III,” EPA Publication No. EPA/600/R-95/131, all of which are incorporated by reference at Section 734.120 of this Part.

“Property damage” means physical injury to, destruction of, or contamination of tangible property owned by a person other than an owner or operator of the UST from which a release of petroleum has occurred and which tangible property is located off the site where the release occurred. Property damage includes all resulting loss of use of that property; or loss of use of tangible property that is not physically injured, destroyed or contaminated, but has been evacuated, withdrawn from use, or rendered inaccessible because of a release of petroleum from an underground storage tank [415 ILCS 5/57.2].

“Public water supply” means all mains, pipes and structures through which water is obtained and distributed to the public, including wells and well structures, intakes and cribs, pumping stations, treatment plants, reservoirs, storage tanks and appurtenances, collectively or severally, actually used or intended for use for the purpose of furnishing water for drinking or general domestic use and which serve at least 15 service connections or which regularly serve at least 25 persons at least 60 days per year. A public water supply is either a “community water supply” or a “non-community water supply” [415 ILCS 5/3.365].

“Reasonable Quantity” The number of Units of Measure of a Standard Product or Service that are considered to be reasonable in relation to the performance of a particular Task per the provisions of 734.805 (b).

"Registration" means registration of an underground storage tank with the OSFM in accordance with Section 4 of the Gasoline Storage Act [430 ILCS 15/4].

"Regulated recharge area" means a compact geographic area, as determined by the Board, [35 Ill. Adm. Code Subtitle F] the geology of which renders a potable resource groundwater particularly susceptible to contamination [415 ILCS 5/3.390].

"Regulated Substance" means any substance defined in Section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 USC 9601(14)] (but not including any substance regulated as a hazardous waste under subtitle C of the Resource Conservation and Recovery Act [42 USC 6921 et seq.]), and petroleum. (Derived from 42 USC 6991)

"Release" means any spilling, leaking, emitting, discharging, escaping, leaching, or disposing of petroleum from an underground storage tank into groundwater, surface water or subsurface soils [415 ILCS 5/57.2].

"Residential Tank" means an underground storage tank located on property used primarily for dwelling purposes.

"Residential Unit" means a structure used primarily for dwelling purposes including multi-unit dwellings such as apartment buildings, condominiums, cooperatives, or dormitories.

"Right-of-way" means the land, or interest therein, acquired for or devoted to a highway [605 ILCS 5/2-217].

"Setback Zone" means a geographic area, designated pursuant to the Act [415 ILCS 5/14.1, 5/14.2, 5/14.3] or regulations [35 Ill. Adm. Code Subtitle F], containing a potable water supply well or a potential source or potential route, having a continuous boundary, and within which certain prohibitions or regulations are applicable in order to protect groundwater [415 ILCS 5/3.450].

"Site" means any single location, place, tract of land or parcel of property including contiguous property not separated by a public right-of-way [415 ILCS 5/57.2].

"Standard Products and Services" The standardized environmental products and services that may be necessary on a Task by Task basis in order to comply with this provisions of this Part. Standard Products and Services are listed in Appendix E. A product or service not listed in Appendix E may be approved as a Standard Product or Service on a site- specific basis pursuant to the provisions of 734.800 (a) (ii). [Also referred to as "Products and Services"]

"Standardized Task" An individual work activity that may be required to be completed in order to comply with the provisions of this Part. Standardized tasks are published in Appendix D of this Part. [Also referred to as Task].

"State highway" means state highway as defined in the Illinois Highway Code [605 ILCS 5].

"Street" means street as defined in the Illinois Highway Code [605 ILCS 5].

"Surface Body of Water" or "Surface Water Body" means a natural or man-made body of water on the ground surface including but not limited to lakes, ponds, reservoirs, retention ponds, rivers, streams, creeks, and drainage ditches. Surface body of water does not include puddles or other accumulations of precipitation, run-off, or groundwater in UST excavations.

"Toll highway" means toll highway as defined in the Toll Highway Act, 605 ILCS 10.

"Township road" means township road as defined in the Illinois Highway Code [605 ILCS 5].

"Underground Storage Tank" or "UST" means any one or combination of tanks (including underground pipes connected thereto) which is used to contain an accumulation of regulated substances, and the volume of which (including the volume of underground pipes connected thereto) is 10 per centum or more beneath the surface of the ground. Such term does not include any of the following or any pipes connected thereto:

Farm or residential tank of 1,100 gallons or less capacity used for storing motor fuel for noncommercial purposes;

Septic tank;

Pipeline facility (including gathering lines) regulated under the Natural Gas Pipeline Safety Act of 1968 [49 USC App. 1671 et seq.], or the Hazardous Liquid Pipeline Safety Act of 1979 [49 USC App. 2001 et seq.], or which is an intrastate pipeline facility regulated under State laws as provided in either of these provisions of law, and that is determined by the Secretary of Energy to be connected to a pipeline or to be operated or intended to be capable of operating at pipeline pressure or as an integral part of a pipeline;

Surface impoundment, pit, pond, or lagoon;

Storm water or waste water collection system;

Flow-through process tank;

Liquid trap or associated gathering lines directly related to oil or gas production and gathering operations; or

Storage tank situated in an underground area (such as a basement, cellar, mineworking, drift, shaft, or tunnel) if the storage tank is situated on or above the surface of the floor. (Derived from 42 USC § 6991)

The term "underground storage tank" shall also mean an underground storage tank used exclusively to store heating oil for consumptive use on the premises where stored and which serves other than a farm or residential unit [415 ILCS 5/57.2].

"Unit(s) of Measure" The objective metric utilized to establish the basis for pricing a product or service. Examples include, but are not limited to "gallon", "hour", "cubic yard".

"UST system" or "tank system" means an underground storage tank, connected underground piping, underground ancillary equipment, and containment system, if any.

"Wellhead Protection Area" means the wellhead protection area of a community water supply well as determined under the Agency's wellhead protection program pursuant to 42 USC § 300h-7.

Section 734.120 Incorporations by Reference

- a) The Board incorporates the following material by reference:

ASTM. American Society for Testing and Materials, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 (610) 832-9585

ASTM D 2487-93, Standard Test Method for Classification of Soils for Engineering Purposes, approved September 15, 1993.

NTIS. National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161 (703) 605-6000 or (800) 553-6847

"Methods for the Determination of Metals in Environmental Samples," EPA Publication No. EPA/600/4-91/010 (June 1991);

"Methods for the Determination of Metals in Environmental Samples, Supplement I," EPA Publication No. EPA/600/R-94/111 (May 1994);

"Methods for the Determination of Organic Compounds in Drinking Water," EPA Publication No. EPA/600/4-88/039 (December 1988) (revised July 1991);

"Methods for the Determination of Organic Compounds in Drinking Water, Supplement II," EPA Publication No. EPA/600/R-92/129 (August 1992);

"Methods for the Determination of Organic Compounds in Drinking Water, Supplement III," EPA Publication No. EPA/600/R-95/131 (August 1995);

"Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846, Third Edition (September 1986), as amended by Updates I, IIA, III, and IIIA (Final Update IIIA dated April 1998), Doc. No. 955-001-00000-1.

- b) This Section incorporates no later editions or amendments.

Section 734.125 Agency Authority to Initiate Investigative, Preventive, or Corrective Action

- a) *The Agency has the authority to do either of the following:*
- 1) *Provide notice to the owner or operator, or both, of an underground storage tank whenever there is a release or substantial threat of a release of petroleum from such tank. Such notice shall include the identified investigation or response action and an opportunity for the owner or operator, or both, to perform the response action.*
 - 2) *Undertake investigative, preventive or corrective action whenever there is a release or a substantial threat of a release of petroleum from an underground storage tank [415 ILCS 5/57.12(c)].*
- b) *If notice has been provided under this Section, the Agency has the authority to require the owner or operator, or both, of an underground storage tank to undertake preventive or corrective action whenever there is a release or substantial threat of a release of petroleum from such tank [415 ILCS 5/57.12(d)].*

Section 734.130 Licensed Professional Engineer or Licensed Professional Geologist Supervision

All investigations, plans, budgets, and reports conducted or prepared under this Part, excluding Corrective Action Completion Reports submitted pursuant to Section 734.345 of this Part, must be conducted or prepared under the supervision of a Licensed Professional Engineer or Licensed Professional Geologist. Corrective Action Completion Reports submitted pursuant to Section 734.345 of this Part must be prepared under the supervision of a Licensed Professional Engineer.

Section 734.135 Form and Delivery of Plans, Budgets, and Reports; Signatures and Certifications

- a) All plans, budgets, and reports must be submitted to the Agency on forms prescribed and provided by the Agency and, if specified by the Agency in writing, in an electronic format.
- b) All plans, budgets, and reports must be mailed or delivered to the address designated by the Agency. The Agency's record of the date of receipt must be deemed conclusive unless a contrary date is proven by a dated, signed receipt from certified or registered mail.
- c) All plans, budgets, and reports must be signed by the owner or operator and list the owner's or operator's full name, address, and telephone number.
- d) All plans, budgets, and reports submitted pursuant to this Part, excluding Corrective Action Completion Reports submitted pursuant to Section 734.345 of this Part, must contain the following certification from a Licensed Professional Engineer or Licensed Professional Geologist. Corrective Action Completion Reports submitted pursuant to Section 734.345 of this Part must contain the following certification from a Licensed Professional Engineer.

I certify under penalty of law that all activities that are the subject of this plan, budget, or report were conducted under my supervision or were conducted under the supervision of another Licensed Professional Engineer or Licensed Professional Geologist and reviewed by me; that this plan, budget, or report and all attachments were prepared under my supervision; that, to the best of my knowledge and belief, the work described in the plan, budget, or report has been completed in accordance with the Environmental Protection Act [415 ILCS 5], 35 Ill. Adm. Code 734, and generally accepted standards and practices of my profession; and that the information presented is accurate and complete. I am aware there are significant penalties for submitting false statements or representations to the Agency, including but not limited to fines, imprisonment, or both as provided in Sections 44 and 57.17 of the Environmental Protection Act [415 ILCS 5/44 and 57.17].
- e) Except in the case of sites subject to Section 734.715(c) or (d) of this Part, reports documenting the completion of corrective action at a site must contain a form

addressing site ownership. At a minimum, the form must identify the land use limitations proposed for the site, if land use limitations are proposed; the site's common address, legal description, and real estate tax/parcel index number; and the names and addresses of all title holders of record of the site or any portion of the site. The form must also contain the following certification, by original signature, of all title holders of record of the site or any portion of the site, or the agent(s) of such person(s):

I hereby affirm that I have reviewed the attached report entitled _____ and dated _____, and that I accept the terms and conditions set forth therein, including any land use limitations, that apply to property I own. I further affirm that I have no objection to the recording of a No Further Remediation Letter containing the terms and conditions identified in the report upon the property I own.

Section 734.140 Development of Remediation Objectives

The owner or operator must propose remediation objectives for the applicable indicator contaminants in accordance with 35 Ill. Adm. Code 742.

BOARD NOTE: Several provisions of this Part require the owner or operator to determine whether contamination exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742. Please note that these requirements do not limit the owner's or operator's ability to use Tier 2 or Tier 3 remediation objectives in accordance with 35 Ill. Adm. Code 742.

- a) The owner or operator may develop remediation objectives at any time during site investigation or corrective action. Prior to developing Tier 2 or Tier 3 remediation objectives the owner or operator must propose the development of remediation objectives in the appropriate site investigation plan or corrective action plan. Documentation of the development of remediation objectives must be included as a part of the appropriate plan or report.
- b) Any owner or operator intending to seek payment from the Fund shall, prior to the development of Tier 2 or Tier 3 remediation objectives, propose the costs for such activities in the appropriate budget. The costs should be consistent with the eligible and ineligible costs listed at Sections 734.625 and 734.630 of this Part and the maximum payment amounts set forth in Subpart H of this Part.
- c) Upon the Agency's approval of a plan that includes the development of remediation objectives, the owner or operator must proceed to develop remediation objectives in accordance with the plan.
- d) If, following the approval of any plan or associated budget that includes the development of remediation objectives, an owner or operator determines that a revised plan or budget is necessary, the owner or operator must submit, as

applicable, an amended plan or associated budget to the Agency for review. The Agency must review and approve, reject, or require modification of the amended plan or budget in accordance with Subpart E of this Part.

- e) Notwithstanding any requirement under this Part for the submission of a plan or budget that includes the development of remediation objectives, an owner or operator may proceed to develop remediation objectives prior to the submittal or approval of an otherwise required plan or budget. However, any such plan or budget must be submitted to the Agency for review and approval, rejection, or modification in accordance with the procedures contained in Subpart E of this Part prior to receiving payment for any related costs or the issuance of a No Further Remediation Letter.

BOARD NOTE: Owners or operators proceeding under subsection (e) of this Section are advised that they may not be entitled to full payment. Furthermore, applications for payment must be submitted no later than one year after the date the Agency issues a No Further Remediation Letter. See Subpart F of this Part.

Section 734.145 Notification of Field Activities

The Agency may require owners and operators to notify the Agency of field activities prior to the date the field activities take place. The notice must include information prescribed by the Agency, and may include, but is not be limited to, a description of the field activities to be conducted, the person conducting the activities, and the date, time, and place the activities will be conducted. The Agency may, but is not required to, allow notification by telephone, facsimile, or electronic mail. This Section does not apply to activities conducted within 45 days plus 14 days after initial notification to IEMA of a release, or to free product removal activities conducted within 45 days plus 14 days after the confirmation of the presence of free product.

Section 734.150 LUST Advisory Committee

Once each calendar quarter the Agency must meet with a LUST Advisory Committee to discuss the Agency's implementation of this Part, provided that the Agency or members of the Committee raise one or more issues for discussion. The LUST Advisory Committee must consist of the following individuals: one member designated by the Illinois Petroleum Marketers Association, one member designated by the Illinois Petroleum Council, one member designated by the American Consulting Engineers Council of Illinois, one member designated by the Illinois Society of Professional Engineers, one member designated by the Illinois Chapter of the American Institute of Professional Geologists, one member designated by the Professionals of Illinois for the Protection of the Environment, one member designated by the Illinois Association of Environmental Laboratories, one member designated by the Illinois Environmental Regulatory Group, one member designated by the Office of the State Fire Marshal, and one member designated by the Illinois Department of Transportation. Members of the LUST Advisory Committee must serve without compensation.

Section 734.210 Early Action

- a) Upon confirmation of a release of petroleum from an UST system in accordance with regulations promulgated by the OSFM, the owner or operator, or both, must perform the following initial response actions within 24 hours after the release:
 - 1) Report the release to IEMA (e.g., by telephone or electronic mail);
 - 2) Take immediate action to prevent any further release of the regulated substance to the environment; and
 - 3) Identify and mitigate fire, explosion and vapor hazards.
- b) Within 20 days after initial notification to IEMA of a release plus 14 days, the owner or operator must perform the following initial abatement measures:
 - 1) Remove as much of the petroleum from the UST system as is necessary to prevent further release into the environment;
 - 2) Visually inspect any aboveground releases or exposed below ground releases and prevent further migration of the released substance into surrounding soils and groundwater;
 - 3) Continue to monitor and mitigate any additional fire and safety hazards posed by vapors or free product that have migrated from the UST excavation zone and entered into subsurface structures (such as sewers or basements);
 - 4) Remedy hazards posed by contaminated soils that are excavated or exposed as a result of release confirmation, site investigation, abatement or corrective action activities. If these remedies include treatment or disposal of soils, the owner or operator must comply with 35 Ill. Adm. Code 722, 724, 725, and 807 through 815;
 - 5) Measure for the presence of a release where contamination is most likely to be present at the UST site, unless the presence and source of the release have been confirmed in accordance with regulations promulgated by the OSFM. In selecting sample types, sample locations, and measurement methods, the owner or operator must consider the nature of the stored substance, the type of backfill, depth to groundwater and other factors as appropriate for identifying the presence and source of the release; and
 - 6) Investigate to determine the possible presence of free product, and begin removal of free product as soon as practicable and in accordance with Section 734.215 of this Part.

- c) Within 20 days after initial notification to IEMA of a release plus 14 days, the owner or operator must submit a report to the Agency summarizing the initial abatement steps taken under subsection (b) of this Section and any resulting information or data.
- d) Within 45 days after initial notification to IEMA of a release plus 14 days, the owner or operator must assemble information about the site and the nature of the release, including information gained while confirming the release or completing the initial abatement measures in subsections (a) and (b) of this Section. This information must include, but is not limited to, the following:
- 1) Data on the nature and estimated quantity of release;
 - 2) Data from available sources or site investigations concerning the following factors: surrounding populations, water quality, use and approximate locations of wells potentially affected by the release, subsurface soil conditions, locations of subsurface sewers, climatological conditions and land use;
 - 3) Results of the site check required at subsection (b)(5) of this Section; and
 - 4) Results of the free product investigations required at subsection (b)(6) of this Section, to be used by owners or operators to determine whether free product must be recovered under Section 734.215 of this Part.
- e) Within 45 days after initial notification to IEMA of a release plus 14 days, the owner or operator must submit to the Agency the information collected in compliance with subsection (d) of this Section in a manner that demonstrates its applicability and technical adequacy.
- f) *Notwithstanding any other corrective action taken, an owner or operator may, at a minimum, and prior to submission of any plans to the Agency, remove the tank system, or abandon the underground storage tank in place, in accordance with the regulations promulgated by the Office of the State Fire Marshal (see 41 Ill. Adm. Code 160, 170, 180, 200). The owner may remove visibly contaminated fill material and any groundwater in the excavation which exhibits a sheen. For purposes of payment of early action costs, however, fill material shall not be removed in an amount in excess of 4 feet from the outside dimensions of the tank [415 ILCS 5/57.6(b)]. Early action may also include disposal in accordance with applicable regulations or ex-situ treatment of contaminated fill material removed from within 4 feet from the outside dimensions of the tank.*
- g) For purposes of payment from the Fund, the activities set forth in subsection (f) of this Section must be performed within 45 days after initial notification to IEMA of a release plus 14 days, unless special circumstances, approved by the Agency in writing, warrant continuing such activities beyond 45 days plus 14 days. The

owner or operator must notify the Agency in writing of such circumstances within 45 days after initial notification to IEMA of a release plus 14 days. Costs incurred beyond 45 days plus 14 days must be eligible if the Agency determines that they are consistent with early action.

BOARD NOTE: Owners or operators seeking payment from the Fund are to first notify IEMA of a suspected release and then confirm the release within 14 days to IEMA pursuant to regulations promulgated by the OSFM. See 41 Ill. Adm. Code 170.560 and 170.580. The Board is setting the beginning of the payment period at subsection (g) to correspond to the notification and confirmation to IEMA.

- h) The owner or operator must determine whether the areas or locations of soil contamination exposed as a result of early action excavation (e.g., excavation boundaries, piping runs) or surrounding USTs that remain in place meet the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants.
 - 1) At a minimum, for each UST that is removed, the owner or operator must collect and analyze soil samples as follows. The Agency must allow an alternate location for, or excuse the collection of, one or more samples if sample collection in the following locations is made impracticable by site-specific circumstances.
 - A) One sample must be collected from each UST excavation wall. The samples must be collected from locations representative of soil that is the most contaminated as a result of the release. If an area of contamination cannot be identified on a wall, the sample must be collected from the center of the wall length at a point located one-third of the distance from the excavation floor to the ground surface. For walls that exceed 20 feet in length, one sample must be collected for each 20 feet of wall length, or fraction thereof, and the samples must be evenly spaced along the length of the wall.
 - B) Two samples must be collected from the excavation floor below each UST with a volume of 1,000 gallons or more. One sample must be collected from the excavation floor below each UST with a volume of less than 1,000 gallons. The samples must be collected from locations representative of soil that is the most contaminated as a result of the release. If areas of contamination cannot be identified, the samples must be collected from below each end of the UST if its volume is 1,000 gallons or more, and from below the center of the UST if its volume is less than 1,000 gallons.
 - C) One sample must be collected from the floor of each 20 feet of UST piping run excavation, or fraction thereof. The samples must

be collected from a location representative of soil that is the most contaminated as a result of the release. If an area of contamination cannot be identified within a length of piping run excavation being sampled, the sample must be collected from the center of the length being sampled. For UST piping abandoned in place, the samples must be collected in accordance with subsection (h)(2)(B) of this Section.

- D) If backfill is returned to the excavation, one representative sample of the backfill must be collected for each 100 cubic yards of backfill returned to the excavation.
 - E) The samples must be analyzed for the applicable indicator contaminants. In the case of a used oil UST, the sample that appears to be the most contaminated as a result of a release from the used oil UST must be analyzed in accordance with Section 734.405(g) of this Part to determine the indicator contaminants for used oil. The remaining samples collected pursuant to subsections (h)(1)(A) and (B) of this Section must then be analyzed for the applicable used oil indicator contaminants.
- 2) At a minimum, for each UST that remains in place, the owner or operator must collect and analyze soil samples as follows. The Agency must allow an alternate location for, or excuse the drilling of, one or more borings if drilling in the following locations is made impracticable by site-specific circumstances.
- A) One boring must be drilled at the center point along each side of each UST, or along each side of each cluster of multiple USTs, remaining in place. If a side exceeds 20 feet in length, one boring must be drilled for each 20 feet of side length, or fraction thereof, and the borings must be evenly spaced along the side. The borings must be drilled in the native soil surrounding the UST(s) and as close practicable to, but not more than five feet from, the backfill material surrounding the UST(s). Each boring must be drilled to a depth of 30 feet below grade, or until groundwater or bedrock is encountered, whichever is less. Borings may be drilled below the groundwater table if site specific conditions warrant, but no more than 30 feet below grade.
 - B) Two borings, one on each side of the piping, must be drilled for every 20 feet of UST piping, or fraction thereof, that remains in place. The borings must be drilled as close practicable to, but not more than five feet from, the locations of suspected piping releases. If no release is suspected within a length of UST piping being sampled, the borings must be drilled in the center of the

length being sampled. Each boring must be drilled to a depth of 15 feet below grade, or until groundwater or bedrock is encountered, whichever is less. Borings may be drilled below the groundwater table if site specific conditions warrant, but no more than 15 feet below grade. For UST piping that is removed, samples must be collected from the floor of the piping run in accordance with subsection (h)(1)(C) of this Section.

- C) If auger refusal occurs during the drilling of a boring required under subsection (h)(2)(A) or (B) of this Section, the boring must be drilled in an alternate location that will allow the boring to be drilled to the required depth. The alternate location must not be more than five feet from the boring's original location. If auger refusal occurs during drilling of the boring in the alternate location, drilling of the boring must cease and the soil samples collected from the location in which the boring was drilled to the greatest depth must be analyzed for the applicable indicator contaminants.
 - D) One soil sample must be collected from each five-foot interval of each boring required under subsections (h)(2)(A) through (C) of this Section. Each sample must be collected from the location within the five-foot interval that is the most contaminated as a result of the release. If an area of contamination cannot be identified within a five-foot interval, the sample must be collected from the center of the five-foot interval, provided, however, that soil samples must not be collected from soil below the groundwater table. All samples must be analyzed for the applicable indicator contaminants.
- 3) If the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have been met, and if none of the criteria set forth in subsections (h)(4)(A) through (C) of this Section are met, within 30 days after the completion of early action activities the owner or operator must submit a report demonstrating compliance with those remediation objectives. The report must include, but not be limited to, the following:
- A) A characterization of the site that demonstrates compliance with the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - B) Supporting documentation, including, but not limited to, the following:

- i) A site map meeting the requirements of Section 734.440 of this Part that shows the locations of all samples collected pursuant to this subsection (h);
 - ii) Analytical results, chain of custody forms, and laboratory certifications for all samples collected pursuant to this subsection (h); and
 - iii) A table comparing the analytical results of all samples collected pursuant to this subsection (h) to the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
 - C) A site map containing only the information required under Section 734.440 of this Part.
- 4) If the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have not been met, or if one or more of the following criteria are met, the owner or operator must continue in accordance with Subpart C of this Part:
 - A) There is evidence that groundwater wells have been impacted by the release above the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants (e.g., as found during release confirmation or previous corrective action measures);
 - B) Free product that may impact groundwater is found to need recovery in compliance with Section 734.215 of this Part; or
 - C) There is evidence that contaminated soils may be or may have been in contact with groundwater, unless:
 - i) The owner or operator pumps the excavation or tank cavity dry, properly disposes of all contaminated water, and demonstrates to the Agency that no recharge is evident during the 24 hours following pumping; and
 - ii) The Agency determines that further groundwater investigation is not necessary.

Section 734.215 Free Product Removal

- a) Under any circumstance in which conditions at a site indicate the presence of free product, owners or operators must remove, to the maximum extent practicable,

free product exceeding one-eighth of an inch in depth as measured in a groundwater monitoring well, or present as a sheen on groundwater in the tank removal excavation or on surface water, while initiating or continuing any actions required pursuant to this Part or other applicable laws or regulations. In meeting the requirements of this Section, owners or operators must:

- 1) Conduct free product removal in a manner that minimizes the spread of contamination into previously uncontaminated zones by using recovery and disposal techniques appropriate to the hydrogeologic conditions at the site and that properly treats, discharges or disposes of recovery byproducts in compliance with applicable local, State, and federal regulations;
- 2) Use abatement of free product migration as a minimum objective for the design of the free product removal system;
- 3) Handle any flammable products in a safe and competent manner to prevent fires or explosions;
- 4) Within 45 days after the confirmation of presence of free product from a UST, prepare and submit to the Agency a free product removal report. The report must, at a minimum, provide the following:
 - A) The name of the persons responsible for implementing the free product removal measures;
 - B) The estimated quantity, type and thickness of free product observed or measured in wells, boreholes, and excavations;
 - C) The type of free product recovery system used;
 - D) Whether any discharge will take place on-site or off-site during the recovery operation and where this discharge will be located;
 - E) The type of treatment applied to, and the effluent quality expected from, any discharge;
 - F) The steps that have been or are being taken to obtain necessary permits for any discharge;
 - G) The disposition of the recovered free product;
 - H) The steps taken to identify the source and extent of the free product; and
 - I) A schedule of future activities necessary to complete the recovery of free product still exceeding one-eighth of an inch in depth as

measured in a groundwater monitoring well, or still present as a sheen on groundwater in the tank removal excavation or on surface water. The schedule must include, but not be limited to, the submission of plans and budgets required pursuant to subsections (c) and (d) of this Section; and

- 5) If free product removal activities are conducted more than 45 days after confirmation of the presence of free product, submit free product removal reports quarterly or in accordance with a schedule established by the Agency.
- b) For purposes of payment from the Fund, owners or operators are not required to obtain Agency approval for free product removal activities conducted within 45 days after the confirmation of the presence of free product.
- c) If free product removal activities will be conducted more than 45 days after the confirmation of the presence of free product, the owner or operator must submit to the Agency for review a free product removal plan. The plan must be submitted with the free product removal report required under subsection (a)(4) of this Section. Free product removal activities conducted more than 45 days after the confirmation of the presence of free product must not be considered early action activities.
- d) Any owner or operator intending to seek payment from the Fund must, prior to conducting free product removal activities more than 45 days after the confirmation of the presence of free product, submit to the Agency a free product removal budget with the corresponding free product removal plan. The budget must include, but not be limited to, an estimate of all costs associated with the development, implementation, and completion of the free product removal plan, excluding handling charges. The budget should be consistent with the eligible and ineligible costs listed in Sections 734.625 and 734.630 of this Part and the maximum payment amounts set forth in Subpart H of this Part. As part of the budget the Agency may require a comparison between the costs of the proposed method of free product removal and other methods of free product removal.
- e) Upon the Agency's approval of a free product removal plan, or as otherwise directed by the Agency, the owner or operator must proceed with free product removal in accordance with the plan.
- f) Notwithstanding any requirement under this Part for the submission of a free product removal plan or free product removal budget, an owner or operator may proceed with free product removal in accordance with this Section prior to the submittal or approval of an otherwise required free product removal plan or budget. However, any such plan and budget must be submitted to the Agency for review and approval, rejection, or modification in accordance with the procedures contained in Subpart E of this Part prior to payment for any related costs or the

issuance of a No Further Remediation Letter.

BOARD NOTE: Owners or operators proceeding under subsection (f) of this Section are advised that they may not be entitled to full payment from the Fund. Furthermore, applications for payment must be submitted no later than one year after the date the Agency issues a No Further Remediation Letter. See Subpart F of this Part.

- g) If, following approval of any free product removal plan or associated budget, an owner or operator determines that a revised plan or budget is necessary in order to complete free product removal, the owner or operator must submit, as applicable, an amended free product removal plan or associated budget to the Agency for review. The Agency must review and approve, reject, or require modification of the amended plan or budget in accordance with Subpart E of this Part.

BOARD NOTE: Owners and operators are advised that the total payment from the Fund for all free product removal plans and associated budgets submitted by an owner or operator must not exceed the amounts set forth in Subpart H of this Part.

Section 734.220 Application for Payment of Early Action Costs

Owners or operators intending to seek payment for early action activities, excluding free product removal activities conducted more than 45 days after confirmation of the presence of free product, are not required to submit a corresponding budget. The application for payment may be submitted to the Agency upon completion of the early action activities in accordance with the requirements at Subpart F of this Part, excluding free product removal activities conducted more than 45 days after confirmation of the presence of free product. Applications for payment of free product removal activities conducted more than 45 days after confirmation of the presence of free product may be submitted upon completion of the free product removal activities.

SUBPART C: SITE INVESTIGATION AND CORRECTIVE ACTION

Section 734.300 General

Unless the owner or operator submits a report pursuant to Section 734.210(h)(3) of this Part demonstrating that the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants have been met, the owner or operator must investigate the site, conduct corrective action, and prepare plans, budgets, and reports in accordance with the requirements of this Subpart C.

Section 734.305 Agency Authority to Initiate

Pursuant to Sections 734.100 or 734.125 of this Part, the Agency must have the authority to require or initiate site investigation and corrective action activities in accordance with the remainder of this Subpart C.

Section 734.310 Site Investigation – General

The investigation of the release must proceed in three stages as set forth in this Part. If, after the completion of any stage, the extent of the soil and groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants as a result of the release has been defined, the owner or operator must cease investigation and proceed with the submission of a site investigation completion report in accordance with Section 734.330 of this Part.

- a) Prior to conducting site investigation activities pursuant to Section 734.315, 734.320, or 734.325 of this Part, the owner or operator must submit to the Agency for review a site investigation plan. The plan must be designed to satisfy the minimum requirements set forth in the applicable section and to collect the information required to be reported in the site investigation plan for the next stage of the site investigation, or in the site investigation completion report, whichever is applicable.
- b) Any owner or operator intending to seek payment from the Fund must, prior to conducting any site investigation activities, submit to the Agency a site investigation budget with the corresponding site investigation plan. The budget must include, but not be limited to, a copy of the eligibility and deductibility determination of the OSFM and an estimate of all costs associated with the development, implementation, and completion of the site investigation plan, excluding handling charges and costs associated with monitoring well abandonment. Costs associated with monitoring well abandonment must be included in the corrective action budget. Site investigation budgets should be consistent with the eligible and ineligible costs listed at Sections 734.625 and 734.630 of this Part and the maximum payment amounts set forth in Subpart H of this Part. A budget for a Stage 1 site investigation must consist of a certification signed by the owner or operator, and by a Licensed Professional Engineer or Licensed Professional Geologist, that the costs of the Stage 1 site investigation will not exceed the amounts set forth in Subpart H of this Part.
- c) *Upon the Agency's approval of a site investigation plan, or as otherwise directed by the Agency, the owner or operator shall conduct a site investigation in accordance with the plan [415 ILCS 5/57.7(a)(4)].*
- d) If, following the approval of any site investigation plan or associated budget, an owner or operator determines that a revised plan or budget is necessary in order to

determine, within the area addressed in the applicable stage of the investigation, the nature, concentration, direction of movement, rate of movement, and extent of the contamination, or the significant physical features of the site and surrounding area that may affect contaminant transport and risk to human health and safety and the environment, the owner or operator must submit, as applicable, an amended site investigation plan or associated budget to the Agency for review. The Agency must review and approve, reject, or require modification of the amended plan or budget in accordance with Subpart E of this Part.

BOARD NOTE: Owners and operators are advised that the total payment from the Fund for all site investigation plans and associated budgets submitted by an owner or operator must not exceed the amounts set forth in Subpart H of this Part.

- e) Notwithstanding any requirement under this Part for the submission of a site investigation plan or budget, an owner or operator may proceed to conduct site investigation activities in accordance with this Subpart C prior to the submittal or approval of an otherwise required site investigation plan or budget. However, any such plan or budget must be submitted to the Agency for review and approval, rejection, or modification in accordance with the procedures contained in Subpart E of this Part prior to receiving payment for any related costs or the issuance of a No Further Remediation Letter.

BOARD NOTE: Owners or operators proceeding under subsection (e) of this Section are advised that they may not be entitled to full payment. Furthermore, applications for payment must be submitted no later than one year after the date the Agency issues a No Further Remediation Letter. See Subpart F of this Part.

Section 734.315 Stage 1 Site Investigation

The Stage 1 site investigation must be designed to gather initial information regarding the extent of on-site soil and groundwater contamination that, as a result of the release, exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants.

- a) The Stage 1 site investigation must consist of the following:
 - 1) Soil investigation.
 - A) Up to four borings must be drilled around each independent UST field where one or more UST excavation samples collected pursuant to 734.210(h), excluding backfill samples, exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. One additional boring must be drilled as close as practicable to each UST field if a groundwater investigation is not required under subsection (a)(2) of this Section. The borings must be advanced through the entire

vertical extent of contamination, based upon field observations and field screening for organic vapors, provided that borings must be drilled below the groundwater table only if site-specific conditions warrant.

- B) Up to two borings must be drilled around each UST piping run where one or more piping run samples collected pursuant to 734.210(h) exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. One additional boring must be drilled as close as practicable to each UST piping run if a groundwater investigation is not required under subsection (a)(2) of this Section. The borings must be advanced through the entire vertical extent of contamination, based upon field observations and field screening for organic vapors, provided that borings must be drilled below the groundwater table only if site-specific conditions warrant.
- C) One soil sample must be collected from each five-foot interval of each boring drilled pursuant to subsections (a)(1)(A) and (B) of this Section. Each sample must be collected from the location within the five-foot interval that is the most contaminated as a result of the release. If an area of contamination cannot be identified within a five-foot interval, the sample must be collected from the center of the five-foot interval. All samples must be analyzed for the applicable indicator contaminants.

2) Groundwater investigation.

- A) A groundwater investigation is required under the following circumstances:
 - i) There is evidence that groundwater wells have been impacted by the release above the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - ii) Free product that may impact groundwater is found to need recovery in compliance with Section 734.215 of this Part;
or
 - iii) There is evidence that contaminated soils may be or may have been in contact with groundwater, except that, if the owner or operator pumps the excavation or tank cavity dry, properly disposes of all contaminated water, and demonstrates to the Agency that no recharge is evident during the 24 hours following pumping, the owner or

operator does not have to complete a groundwater investigation, unless the Agency's review reveals that further groundwater investigation is necessary.

- B) If a groundwater investigation is required, the owner or operator must install five groundwater monitoring wells. One monitoring well must be installed in the location where groundwater contamination is most likely to be present. The four remaining wells must be installed at the property boundary line or 200 feet from the UST system, whichever is less, in opposite directions from each other. The wells must be installed in locations where they are most likely to detect groundwater contamination resulting from the release and provide information regarding the groundwater gradient and direction of flow.
- C) One soil sample must be collected from each five-foot interval of each monitoring well installation boring drilled pursuant to subsection (a)(2)(B) of this Section. Each sample must be collected from the location within the five-foot interval that is the most contaminated as a result of the release. If an area of contamination cannot be identified within a five-foot interval, the sample must be collected from the center of the five-foot interval. All soil samples exhibiting signs of contamination must be analyzed for the applicable indicator contaminants. For borings that do not exhibit any signs of soil contamination, samples from the following intervals must be analyzed for the applicable indicator contaminants, provided that the samples must not be analyzed if other soil sampling conducted to date indicates that soil contamination does not extend to the location of the monitoring well installation boring:
- i) The five-foot intervals intersecting the elevations of soil samples collected pursuant to Section 734.210(h), excluding backfill samples, that exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants.
 - ii) The five-foot interval immediately above each five-foot interval identified in subsection (a)(2)(C)(i) of this Section; and
 - iii) The five-foot interval immediately below each five-foot interval identified in subsection (a)(2)(C)(i) of this Section.

- D) Following the installation of the groundwater monitoring wells, groundwater samples must be collected from each well and analyzed for the applicable indicator contaminants.
 - E) As a part of the groundwater investigation an in-situ hydraulic conductivity test must be performed in the first fully saturated layer below the water table. If multiple water bearing units are encountered, an in-situ hydraulic conductivity test must be performed on each such unit.
 - i) Wells used for hydraulic conductivity testing must be constructed in a manner that ensures the most accurate results.
 - ii) The screen must be contained within the saturated zone.
- 3) An initial water supply well survey in accordance with Section 734.445(a) of this Part.
- b) The Stage 1 site investigation plan must consist of a certification signed by the owner or operator, and by a Licensed Professional Engineer or Licensed Professional Geologist, that the Stage 1 site investigation will be conducted in accordance with this Section.
 - c) If none of the samples collected as part of the Stage 1 site investigation exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants, the owner or operator must cease site investigation and proceed with the submission of a site investigation completion report in accordance with Section 734.330 of this Part. If one or more of the samples collected as part of the Stage 1 site investigation exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants, within 30 days after completing the Stage 1 site investigation the owner or operator must submit to the Agency for review a Stage 2 site investigation plan in accordance with Section 734.320 of this Part.

Section 734.320 Stage 2 Site Investigation

The Stage 2 site investigation must be designed to complete the identification of the extent of soil and groundwater contamination at the site that, as a result of the release, exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. The investigation of any off-site contamination must be conducted as part of the Stage 3 site investigation.

- a) The Stage 2 site investigation must consist of the following:

- 1) The additional drilling of soil borings and collection of soil samples necessary to identify the extent of soil contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. Soil samples must be collected in appropriate locations and at appropriate depths, based upon the results of the soil sampling and other investigation activities conducted to date, provided, however, that soil samples must not be collected below the groundwater table. All samples must be analyzed for the applicable indicator contaminants; and
 - 2) The additional installation of groundwater monitoring wells and collection of groundwater samples necessary to identify the extent of groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. If soil samples are collected from a monitoring well boring, the samples must be collected in appropriate locations and at appropriate depths, based upon the results of the soil sampling and other investigation activities conducted to date, provided, however, that soil samples must not be collected below the groundwater table. All samples must be analyzed for the applicable indicator contaminants.
- b) The Stage 2 site investigation plan must include, but not be limited to, the following:
- 1) An executive summary of Stage 1 site investigation activities and actions proposed in the Stage 2 site investigation plan to complete the identification of the extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - 2) A characterization of the site and surrounding area, including, but not limited to, the following:
 - A) The current and post-remediation uses of the site and surrounding properties; and
 - B) The physical setting of the site and surrounding area including, but not limited to, features relevant to environmental, geographic, geologic, hydrologic, hydrogeologic, and topographic conditions;
 - 3) The results of the Stage 1 site investigation, including but not limited to the following:
 - A) One or more site maps meeting the requirements of Section 734.440 that show the locations of all borings and groundwater

monitoring wells completed to date, and the groundwater flow direction;

- B) One or more site maps meeting the requirements of Section 734.440 that show the locations of all samples collected to date and analyzed for the applicable indicator contaminants;
 - C) One or more site maps meeting the requirements of Section 734.440 that show the extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - D) One or more cross-sections of the site that show the geology of the site and the horizontal and vertical extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - E) Analytical results, chain of custody forms, and laboratory certifications for all samples analyzed for the applicable indicator contaminants as part of the Stage 1 site investigation;
 - F) One or more tables comparing the analytical results of the samples collected to date to the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - G) Water supply well survey documentation required pursuant to Section 734.445(d) of this Part for water supply well survey activities conducted as part of the Stage 1 site investigation; and
 - H) For soil borings and groundwater monitoring wells installed as part of the Stage 1 site investigation, soil boring logs and monitoring well construction diagrams meeting the requirements of Sections 734.425 and 734.430 of this Part; and
- 4) A Stage 2 sampling plan that includes, but not be limited to, the following:
- A) A narrative justifying the activities proposed as part of the Stage 2 site investigation;
 - B) A map depicting the location of additional soil borings and groundwater monitoring wells proposed to complete the identification of the extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation

objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and

- C) The depth and construction details of the proposed soil borings and groundwater monitoring wells.
- c) If the owner or operator proposes no site investigation activities in the Stage 2 site investigation plan and none of the applicable indicator contaminants that exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 as a result of the release extend beyond the site's property boundaries, upon submission of the Stage 2 site investigation plan the owner or operator must cease site investigation and proceed with the submission of a site investigation completion report in accordance with Section 734.330 of this Part. If the owner or operator proposes no site investigation activities in the Stage 2 site investigation plan and applicable indicator contaminants that exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 as a result of the release extend beyond the site's property boundaries, within 30 days after the submission of the Stage 2 site investigation plan the owner or operator must submit to the Agency for review a Stage 3 site investigation plan in accordance with Section 734.325 of this Part.
- d) If the results of a Stage 2 site investigation indicate that none of the applicable indicator contaminants that exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 as a result of the release extend beyond the site's property boundaries, upon completion of the Stage 2 site investigation the owner or operator must cease site investigation and proceed with the submission of a site investigation completion report in accordance with Section 734.330 of this Part. If the results of the Stage 2 site investigation indicate that applicable indicator contaminants that exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 as a result of the release extend beyond the site's property boundaries, within 30 days after the completion of the Stage 2 site investigation the owner or operator must submit to the Agency for review a Stage 3 site investigation plan in accordance with Section 734.325 of this Part.

Section 734.325 Stage 3 Site Investigation

The Stage 3 site investigation must be designed to identify the extent of off-site soil and groundwater contamination that, as a result of the release, exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants.

- a) The Stage 3 site investigation must consist of the following:
 - 1) The drilling of soil borings and collection of soil samples necessary to identify the extent of soil contamination beyond the site's property boundaries that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. Soil samples must be collected in appropriate locations and at appropriate depths, based upon the results of the soil sampling and other investigation activities conducted to date, provided, however, that soil samples must not be collected below the groundwater table. All samples must be analyzed for the applicable indicator contaminants; and
 - 2) The installation of groundwater monitoring wells and collection of groundwater samples necessary to identify the extent of groundwater contamination beyond the site's property boundaries that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. If soil samples are collected from a monitoring well boring, the samples must be collected in appropriate locations and at appropriate depths, based upon the results of the soil sampling and other investigation activities conducted to date, provided, however, that soil samples must not be collected below the groundwater table. All samples must be analyzed for the applicable indicator contaminants.

- b) The Stage 3 site investigation plan must include, but not be limited to, the following:
 - 1) An executive summary of Stage 2 site investigation activities and actions proposed in the Stage 3 site investigation plan to identify the extent of soil and groundwater contamination beyond the site's property boundaries that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - 2) The results of the Stage 2 site investigation, including but not limited to the following:
 - A) One or more site maps meeting the requirements of Section 734.440 that show the locations of all borings and groundwater monitoring wells completed as part of the Stage 2 site investigation;
 - B) One or more site maps meeting the requirements of Section 734.440 that show the locations of all groundwater monitoring wells completed to date, and the groundwater flow direction;

- C) One or more site maps meeting the requirements of Section 734.440 that show the extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - D) One or more cross-sections of the site that show the geology of the site and the horizontal and vertical extent of soil and groundwater contamination at the site that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - E) Analytical results, chain of custody forms, and laboratory certifications for all samples analyzed for the applicable indicator contaminants as part of the Stage 2 site investigation;
 - F) One or more tables comparing the analytical results of the samples collected to date to the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
 - G) For soil borings and groundwater monitoring wells installed as part of the Stage 2 site investigation, soil boring logs and monitoring well construction diagrams meeting the requirements of Sections 734.425 and 734.430 of this Part; and
- 3) A Stage 3 sampling plan that includes, but not be limited to, the following:
- A) A narrative justifying the activities proposed as part of the Stage 3 site investigation;
 - B) A map depicting the location of soil borings and groundwater monitoring wells proposed to identify the extent of soil and groundwater contamination beyond the site's property boundaries that exceeds the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
 - C) The depth and construction details of the proposed soil borings and groundwater monitoring wells.
- c) Upon completion of the Stage 3 site investigation the owner or operator must proceed with the submission of a site investigation completion report that meets the requirements of Section 734.330 of this Part.

Section 734.330 Site Investigation Completion Report

Within 30 days after completing the site investigation, the owner or operator shall submit to the Agency for approval a site investigation completion report [415 ILCS 5/57.7(a)(5)]. At a minimum, a site investigation completion report must contain the following:

- a) A history of the site with respect to the release;
- b) A description of the site, including but not limited to the following:
 - 1) General site information, including but not limited to the site's and surrounding area's regional location; geography, hydrology, geology, hydrogeology, and topography; existing and potential migration pathways and exposure routes; and current and post-remediation uses;
 - 2) One or more maps meeting the requirements of Section 734.440 that show the locations of all borings and groundwater monitoring wells completed as part of site investigation, and the groundwater flow direction;
 - 3) One or more maps showing the horizontal extent of soil and groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - 4) One or more map cross-sections showing the horizontal and vertical extent of soil and groundwater contamination exceeding the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - 5) Soil boring logs and monitoring well construction diagrams meeting the requirements of Sections 734.425 and 734.430 of this Part for all borings drilled and all groundwater monitoring wells installed as part of site investigation;
 - 6) Analytical results, chain of custody forms, and laboratory certifications for all samples analyzed for the applicable indicator contaminants as part of site investigation;
 - 7) A table comparing the analytical results of samples collected as part of site investigation to the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
 - 8) The water supply well survey documentation required pursuant to Section 734.445(d) of this Part for water supply well survey activities conducted as part of site investigation; and

- c) A conclusion that includes, but is not limited to, an assessment of the sufficiency of the data in the report.

Section 734.335 Corrective Action Plan

- a) *If any of the applicable indicator contaminants exceed the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants, within 30 days after the Agency approves the site investigation completion report, the owner or operator shall submit to the Agency for approval a corrective action plan designed to mitigate any threat to human health, human safety, or the environment resulting from the underground storage tank release. [415 ILCS 5/57.7(b)(2)].* The corrective action plan must address all media impacted by the UST release and must contain, at a minimum, the following information:

- 1) An executive summary that identifies the objectives of the corrective action plan and the technical approach to be utilized to meet such objectives. At a minimum, the summary must include the following information:
 - A) The major components (e.g., treatment, containment, removal) of the corrective action plan;
 - B) The scope of the problems to be addressed by the proposed corrective action, including but not limited to the specific indicator contaminants and the physical area; and
 - C) A schedule for implementation and completion of the plan;
- 2) A statement of the remediation objectives proposed for the site;
- 3) A description of the remedial technologies selected and how each fits into the overall corrective action strategy, including but not limited to the following:
 - A) The feasibility of implementing the remedial technologies;
 - B) Whether the remedial technologies will perform satisfactorily and reliably until the remediation objectives are achieved;
 - C) A schedule of when the remedial technologies are expected to achieve the applicable remediation objectives and a rationale for the schedule; and

- D) For alternative technologies, the information required under Section 734.340 of this Part;
- 4) A confirmation sampling plan that describes how the effectiveness of the corrective action activities will be monitored or measured during their implementation and after their completion;
 - 5) A description of the current and projected future uses of the site;
 - 6) A description of any engineered barriers or institutional controls proposed for the site that will be relied upon to achieve remediation objectives. The description must include, but not be limited to, an assessment of their long-term reliability and operating and maintenance plans;
 - 7) A description of water supply well survey activities required pursuant to Sections 734.445(b) and (c) of this Part that were conducted as part of site investigation; and
 - 8) Appendices containing references and data sources relied upon in the report that are organized and presented logically, including but not limited to field logs, well logs, and reports of laboratory analyses.
- b) Any owner or operator intending to seek payment from the Fund must, prior to conducting any corrective action activities beyond site investigation, submit to the Agency a corrective action budget with the corresponding corrective action plan. The budget must include, but not be limited to, a copy of the eligibility and deductibility determination of the OSFM and an estimate of all costs associated with the development, implementation, and completion of the corrective action plan, excluding handling charges. The budget should be consistent with the eligible and ineligible costs listed at Sections 734.625 and 734.630 of this Part and the maximum payment amounts set forth in Subpart H of this Part. As part of the budget the Agency may require a comparison between the costs of the proposed method of remediation and other methods of remediation.
- c) *Upon the Agency's approval of a corrective action plan, or as otherwise directed by the Agency, the owner or operator shall proceed with corrective action in accordance with the plan [415 ILCS 5/57.7(b)(4)].*
- d) Notwithstanding any requirement under this Part for the submission of a corrective action plan or corrective action budget, except as provided at Section 734.340 of this Part, an owner or operator may proceed to conduct corrective action activities in accordance with this Subpart C prior to the submittal or approval of an otherwise required corrective action plan or budget. However, any such plan and budget must be submitted to the Agency for review and approval, rejection, or modification in accordance with the procedures contained in Subpart E of this Part prior to payment for any related costs or the issuance of a No

Further Remediation Letter.

BOARD NOTE: Owners or operators proceeding under subsection (d) of this Section are advised that they may not be entitled to full payment from the Fund. Furthermore, applications for payment must be submitted no later than one year after the date the Agency issues a No Further Remediation Letter. See Subpart F of this Part.

- e) If, following approval of any corrective action plan or associated budget, an owner or operator determines that a revised plan or budget is necessary in order to mitigate any threat to human health, human safety, or the environment resulting from the underground storage tank release, the owner or operator must submit, as applicable, an amended corrective action plan or associated budget to the Agency for review. The Agency must review and approve, reject, or require modification of the amended plan or budget in accordance with Subpart E of this Part.

BOARD NOTE: Owners and operators are advised that the total payment from the Fund for all corrective action plans and associated budgets submitted by an owner or operator must not exceed the amounts set forth in Subpart H of this Part.

Section 734.340 Alternative Technologies

- a) An owner or operator may choose to use an alternative technology for corrective action in response to a release. Corrective action plans proposing the use of alternative technologies must be submitted to the Agency in accordance with Section 734.335 of this Part. In addition to the requirements for corrective action plans contained in Section 734.335, the owner or operator who seeks approval of an alternative technology must submit documentation along with the corrective action plan demonstrating that:
- 1) The proposed alternative technology has a substantial likelihood of successfully achieving compliance with all applicable regulations and remediation objectives necessary to comply with the Act and regulations and to protect human health and safety and the environment;
 - 2) The proposed alternative technology will not adversely affect human health and safety or the environment;
 - 3) The owner or operator will obtain all Agency permits necessary to legally authorize use of the alternative technology;
 - 4) The owner or operator will implement a program to monitor whether the requirements of subsection (a)(1) of this Section have been met; and
 - 5) Within one year from the date of Agency approval the owner or operator will provide to the Agency monitoring program results establishing

whether the proposed alternative technology will successfully achieve compliance with the requirements of subsection (a)(1) of this Section and any other applicable regulations. The Agency may require interim reports as necessary to track the progress of the alternative technology. The Agency will specify in the approval when those interim reports must be submitted to the Agency.

- b) An owner or operator intending to seek payment for costs associated with the use of an alternative technology must submit a corresponding budget in accordance with Section 734.335 of this Part. In addition to the requirements for a corrective action budget at Section 734.335 of this Part, the budget must demonstrate that the cost of the alternative technology will not exceed the cost of conventional technology and is not substantially higher than other available alternative technologies. The budget plan must compare the costs of at least two other available alternative technologies to the costs of the proposed alternative technology.
- c) If an owner or operator has received approval of a corrective action plan and associated budget from the Agency prior to implementing the plan and the alternative technology fails to satisfy the requirements of subsection (a)(1) or (a)(2) of this Section, such failure must not make the owner or operator ineligible to seek payment for the activities associated with the subsequent performance of a corrective action using conventional technology. However, in no case must the total payment for the site exceed the statutory maximums. Owners or operators implementing alternative technologies without obtaining pre-approval must be ineligible to seek payment for the subsequent performance of a corrective action using conventional technology.
- d) The Agency may require remote monitoring of an alternative technology. The monitoring may include, but not be limited to, monitoring the alternative technology's operation and progress in achieving the applicable remediation objectives.

Section 734.345 Corrective Action Completion Report

- a) *Within 30 days after the completion of a corrective action plan that achieves applicable remediation objectives the owner or operator shall submit to the Agency for approval a corrective action completion report. The report shall demonstrate whether corrective action was completed in accordance with the approved corrective action plan and whether the remediation objectives approved for the site, as well as any other requirements of the plan, have been achieved [415 ILCS 57.7(b)(5)]. At a minimum, the report must contain the following information:*

- 1) An executive summary that identifies the overall objectives of the corrective action and the technical approach utilized to meet those objectives. At a minimum, the summary must contain the following information:
 - A) A brief description of the site, including but not limited to a description of the release, the applicable indicator contaminants, the contaminated media, and the extent of soil and groundwater contamination that exceeded the most stringent Tier 1 remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants;
 - B) The major components (e.g., treatment, containment, removal) of the corrective action;
 - C) The scope of the problems corrected or mitigated by the corrective action; and
 - D) The anticipated post-corrective action uses of the site and areas immediately adjacent to the site;

- 2) A description of the corrective action activities conducted, including but not limited to the following:
 - A) A narrative description of the field activities conducted as part of corrective action;
 - B) A narrative description of the remedial actions implemented at the site and the performance of each remedial technology utilized;
 - C) Documentation of sampling activities conducted as part of corrective action, including but not limited to the following:
 - i) Sample collection information, including but not limited to the sample collector's name, the date and time of sample collection, the collection method, and the sample location;
 - ii) Sample preservation and shipment information, including but not limited to field quality control;
 - iii) Analytical procedure information, including but not limited to the method detection limits and the practical quantitation limits;
 - iv) Chain of custody and control; and

- v) Field and lab blanks; and
 - D) Soil boring logs and monitoring well construction diagrams meeting the requirements of Sections 734.425 and 734.430 of this Part for all borings drilled and all groundwater monitoring wells installed as part of corrective action;
- 3) A narrative description of any special conditions relied upon as part of corrective action, including but not limited to information regarding the following:
- A) Engineered barriers utilized in accordance with 35 Ill. Adm. Code 742 to achieve the approved remediation objectives;
 - B) Institutional controls utilized in accordance with 35 Ill. Adm. Code 742 to achieve the approved remediation objectives, including but not limited to a legible copy of any such controls;
 - C) Other conditions, if any, necessary for protection of human health and safety and the environment that are related to the issuance of a No Further Remediation Letter; and
 - D) Any information required pursuant to Section 734.350 of this Part regarding off-site access;
- 4) An analysis of the effectiveness of the corrective action that compares the confirmation sampling results to the remediation objectives approved for the site. The analysis must present the remediation objectives in an appropriate format (e.g., tabular and graphical displays) such that the information is organized and presented logically and the relationships between the different investigations for each medium are apparent;
- 5) A conclusion that identifies the success in meeting the remediation objectives approved for the site, including but not limited to an assessment of the accuracy and completeness of the data in the report;
- 6) Appendices containing references and data sources relied upon in the report that are organized and presented logically, including but not limited to field logs, well logs, and reports of laboratory analyses;
- 7) The water supply well survey documentation required pursuant to Section 734.445(d) of this Part for water supply well survey activities conducted as part of corrective action; and
- 8) A site map containing only the information required under Section 734.440 of this Part. The site map must also show any engineered barriers

utilized to achieve remediation objectives.

- b) The owner or operator is not required to perform remedial action on an off-site property, even where complete performance of a corrective action plan would otherwise require such off-site action, if the Agency determines that the owner or operator is unable to obtain access to the property despite the use of best efforts in accordance with the requirements of Section 734.350 of this Part.

Section 734.350 Off-site Access

- a) An owner or operator seeking to comply with the best efforts requirements of Section 734.345(b) of this Part must demonstrate compliance with the requirements of this Section.
- b) In conducting best efforts to obtain off-site access, an owner or operator must, at a minimum, send a letter by certified mail to the owner of any off-site property to which access is required, stating:
 - 1) Citation to Title XVI of the Act stating the legal responsibility of the owner or operator to remediate the contamination caused by the release;
 - 2) That, if the property owner denies access to the owner or operator, the owner or operator may seek to gain entry by a court order pursuant to Section 22.2c of the Act;
 - 3) That, in performing the requested investigation, the owner or operator will work so as to minimize any disruption on the property, will maintain, or its consultant will maintain, appropriate insurance and will repair any damage caused by the investigation;
 - 4) If contamination results from a release by the owner or operator, the owner or operator will conduct all associated remediation at its own expense;
 - 5) That threats to human health and the environment and diminished property value may result from failure to remediate contamination from the release; and
 - 6) A reasonable time to respond to the letter, not less than 30 days.
- c) An owner or operator, in demonstrating that the requirements of this Section have been met, must provide to the Agency, as part of the corrective action completion report, the following documentation:
 - 1) A sworn affidavit, signed by the owner or operator, identifying the specific off-site property involved by address, the measures proposed in

the corrective action plan that require off-site access, and the efforts taken to obtain access, and stating that the owner or operator has been unable to obtain access despite the use of best efforts; and

- 2) A copy of the certified letter sent to the owner of the off-site property pursuant to subsection (b) of this Section.
- d) In determining whether the efforts an owner or operator has made constitute best efforts to obtain access, the Agency must consider the following factors:
- 1) The physical and chemical characteristics, including toxicity, persistence and potential for migration, of applicable indicator contaminants at the property boundary line;
 - 2) The hydrogeological characteristics of the site and the surrounding area, including the attenuation capacity and saturation limits of the soil at the property boundary line;
 - 3) The nature and extent of known contamination at the site, including the levels of applicable indicator contaminants at the property boundary line;
 - 4) The potential effects of residual contamination on nearby surface water and groundwater;
 - 5) The proximity, quality and current and future uses of nearby surface water and groundwater, including regulated recharge areas, wellhead protection areas, and setback zones of a potable water supply wells;
 - 6) Any known or suspected natural or man-made migration pathways existing in or near the suspected area of off-site contamination;
 - 7) The nature and use of the part of the off-site property that is the suspected area of contamination;
 - 8) Any existing on-site engineered barriers or institutional controls that might have an impact on the area of suspected off-site contamination, and the nature and extent of such impact; and
 - 9) Any other applicable information assembled in compliance with this Part.
- e) The Agency must issue a No Further Remediation Letter to an owner or operator subject to this Section and otherwise entitled to such issuance only if the owner or operator has, in accordance with this Section, either completed any requisite off-site corrective action or demonstrated to the Agency's satisfaction an inability to obtain off-site access despite best efforts.

- f) The owner or operator is not relieved of responsibility to clean up a release that has migrated beyond the property boundary even where off-site access is denied.

Section 734.355 Status Report

- a) *If within 4 years after the approval of any corrective action plan the applicable remediation objectives have not been achieved and the owner or operator has not submitted a corrective action completion report, the owner or operator shall submit a status report for Agency review. The status report shall include, but is not limited to, a description of the remediation activities taken to date, the effectiveness of the method of remediation being used, the likelihood of meeting the applicable remediation objectives using the current method of remediation, and the date the applicable remediation objectives are expected to be achieved [415 ILCS 5/57.7(b)(6)].*
- b) *If the Agency determines any approved corrective action plan will not achieve applicable remediation objectives within a reasonable time, based upon the method of remediation and site specific circumstances, the Agency may require the owner or operator to submit to the Agency for approval a revised corrective action plan. If the owner or operator intends to seek payment from the Fund, the owner or operator shall also submit a revised budget [415 ILCS 5/57.7(b)(7)]. The revised corrective action plan and any associated budget must be submitted in accordance with Section 734.335 of this Part.*
- c) Any action by the Agency to require a revised corrective action plan pursuant to subsection (b) of this Section must be subject to appeal to the Board within 35 days after the Agency's final action in the manner provided for the review of permit decisions in Section 40 of the Act.

SUBPART D: MISCELLANEOUS PROVISIONS

Section 734.400 General

This Subpart D applies to all activities conducted under this Part and all plans, budgets, reports, and other documents submitted under this Part.

Section 734.405 Indicator Contaminants

- a) For purposes of this Part, the term "indicator contaminants" must mean the parameters identified in subsections (b) through (i) of this Section.
- b) For gasoline, including but not limited to leaded, unleaded, premium and gasohol, the indicator contaminants must be benzene, ethylbenzene, toluene, total xylenes,

- and methyl tertiary butyl ether (MTBE), except as provided in subsection (h) of this Section. For leaded gasoline, lead must also be an indicator contaminant.
- c) For aviation turbine fuels, jet fuels, diesel fuels, gas turbine fuel oils, heating fuel oils, illuminating oils, kerosene, lubricants, liquid asphalt and dust laying oils, cable oils, crude oil, crude oil fractions, petroleum feedstocks, petroleum fractions, and heavy oils, the indicator contaminants must be benzene, ethylbenzene, toluene, total xylenes, and the polynuclear aromatics listed in Section 734.Appendix B of this Part. For leaded aviation turbine fuels, lead must also be an indicator contaminant.
 - d) For transformer oils the indicator contaminants must be benzene, ethylbenzene, toluene, total xylenes, and the polynuclear aromatics and the polychlorinated biphenyl parameters listed in Section 734.Appendix B of this Part.
 - e) For hydraulic fluids the indicator contaminants must be benzene, ethylbenzene, toluene, total xylenes, the polynuclear aromatics listed in Section 734.Appendix B of this Part, and barium.
 - f) For petroleum spirits, mineral spirits, Stoddard solvents, high-flash aromatic naphthas, moderately volatile hydrocarbon solvents, and petroleum extender oils, the indicator contaminants must be the volatile, base/neutral and polynuclear aromatic parameters listed in Section 734.Appendix B of this Part. The Agency may add degradation products or mixtures of any of the above pollutants in accordance with 35 Ill. Adm. Code 620.615.
 - g) For used oil, the indicator contaminants must be determined by the results of a used oil soil sample analysis. In accordance with Section 734.210(h) of this Part, soil samples must be collected from the walls and floor of the used oil UST excavation if the UST is removed, or from borings drilled along each side of the used oil UST if the UST remains in place. The sample that appears to be the most contaminated as a result of a release from the used oil UST must then be analyzed for the following parameters. If none of the samples appear to be contaminated a soil sample must be collected from the floor of the used oil UST excavation below the former location of the UST if the UST is removed, or from soil located at the same elevation as the bottom of the used oil UST if the UST remains in place, and analyzed for the following parameters:
 - 1) All volatile, base/neutral, polynuclear aromatic, and metal parameters listed at Section 734.Appendix B of this Part and any other parameters the Licensed Professional Engineer or Licensed Professional Geologist suspects may be present based on UST usage. The Agency may add degradation products or mixtures of any of the above pollutants in accordance with 35 Ill. Adm. Code 620.615.

- 2) The used oil indicator contaminants must be those volatile, base/neutral, and metal parameters listed at Section 734. Appendix B of this Part or as otherwise identified at subsection (g)(1) of this Section that exceed their remediation objective at 35 Ill. Adm. Code 742 in addition to benzene, ethylbenzene, toluene, total xylenes, and polynuclear aromatics listed in Section 734. Appendix B of this Part.
- 3) If none of the parameters exceed their remediation objective, the used oil indicator contaminants must be benzene, ethylbenzene, toluene, total xylenes, and the polynuclear aromatics listed in Section 734. Appendix B of this Part.
- h) Unless an owner or operator elects otherwise pursuant to subsection (i) of this Section, the term "indicator contaminants" must not include MTBE for any release reported to the Illinois Emergency Management Agency prior to June 1, 2002 (the effective date of amendments establishing MTBE as an indicator contaminant).
- i) An owner or operator exempt from having to address MTBE as an indicator contaminant pursuant to subsection (h) of this Section may elect to include MTBE as an indicator contaminant under the circumstances listed in subsections (1) or (2) of this subsection (i). Elections to include MTBE as an indicator contaminant must be made by submitting to the Agency a written notification of such election signed by the owner or operator. The election must be effective upon the Agency's receipt of the notification and cannot be withdrawn once made. Owners or operators electing to include MTBE as an indicator contaminant must remediate MTBE contamination in accordance with the requirements of this Part.
 - 1) If the Agency has not issued a No Further Remediation Letter for the release; or
 - 2) If the Agency has issued a No Further Remediation Letter for the release and the release has caused off-site groundwater contamination exceeding the remediation objective for MTBE set forth in 35 Ill. Adm. Code 742.

Section 734.410 Remediation Objectives

The owner or operator must propose remediation objectives for applicable indicator contaminants in accordance with 35 Ill. Adm. Code 742. Owners and operators seeking payment from the Fund that perform on-site corrective action in accordance with Tier 2 remediation objectives of 35 Ill. Adm. Code 742 must determine the following parameters on a site-specific basis:

Hydraulic conductivity (K)
Soil bulk density (?_b)

Soil particle density (ρ_s)
Moisture content (w)
Organic carbon content (f_{oc})

Board Note: Failure to use site-specific remediation objectives on-site and to utilize available groundwater ordinances as institutional controls may result in certain corrective action costs being ineligible for payment from the Fund. See Sections 734.630(bbb) and (ccc) of this Part.

Section 734.415 Data Quality

- a) The following activities must be conducted in accordance with "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846, incorporated by reference at Section 734.120 of this Part, or other procedures as approved by the Agency:
 - 1) All field sampling activities, including but not limited to activities relative to sample collection, documentation, preparation, labeling, storage and shipment, security, quality assurance and quality control, acceptance criteria, corrective action, and decontamination procedures;
 - 2) All field measurement activities, including but not limited to activities relative to equipment and instrument operation, calibration and maintenance, corrective action, and data handling; and
 - 3) All quantitative analysis of samples to determine concentrations of indicator contaminants, including but not limited to activities relative to facilities, equipment and instrumentation, operating procedures, sample management, test methods, equipment calibration and maintenance, quality assurance and quality control, corrective action, data reduction and validation, reporting, and records management. Analyses of samples that require more exacting detection limits than, or that cannot be analyzed by standard methods identified in, "Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods," EPA Publication No. SW-846, must be conducted in accordance with analytical protocols developed in consultation with and approved by the Agency.
- b) The analytical methodology used for the analysis of indicator contaminants must have a practical quantitation limit at or below the most stringent objectives or detection levels set forth in 35 Ill. Adm. Code 742 or determined by the Agency pursuant to Section 734.140 of this Part.
- c) All field or laboratory measurements of samples to determine physical or geophysical characteristics must be conducted in accordance with applicable

ASTM standards incorporated by reference at 35 Ill. Adm. Code 742.210, or other procedures as approved by the Agency.

Section 734.420 Laboratory Certification

All quantitative analyses of samples collected on or after January 1, 2003, and utilizing any of the approved test methods identified in 35 Ill. Adm. Code 186.180 must be completed by an accredited laboratory in accordance with the requirements of 35 Ill. Adm. Code 186. A certification from the accredited laboratory stating that the samples were analyzed in accordance with the requirements of this Section must be included with the sample results when they are submitted to the Agency. Quantitative analyses not utilizing an accredited laboratory in accordance with Part 186 must be deemed invalid.

Section 734.425 Soil Borings

- a) Soil borings must be continuously sampled to ensure that no gaps appear in the sample column.
- b) Any water bearing unit encountered must be protected as necessary to prevent cross-contamination during drilling.
- c) Soil boring logs must be kept for all soil borings. The logs must be submitted in the corresponding site investigation plan, site investigation completion report, or corrective action completion report on forms prescribed and provided by the Agency and, if specified by the Agency in writing, in an electronic format. At a minimum, soil boring logs must contain the following information:
 - 1) Sampling device, sample number, and amount of recovery;
 - 2) Total depth of boring to the nearest 6 inches;
 - 3) Detailed field observations describing materials encountered in boring, including but not limited to soil constituents, consistency, color, density, moisture, odors, and the nature and extent of sand or gravel lenses or seams equal to or greater than 1 inch in thickness;
 - 4) Petroleum hydrocarbon vapor readings (as determined by continuous screening of borings with field instruments capable of detecting such vapors);
 - 5) Locations of sample(s) used for physical or chemical analysis;
 - 6) Groundwater levels while boring and at completion; and
 - 7) Unified Soil Classification System (USCS) soil classification group symbol in accordance with ASTM Standard D 2487-93, "Standard Test

Method for Classification of Soils for Engineering Purposes,” incorporated by reference in Section 734.120 of this Part, or other Agency approved method.

Section 734.430 Monitoring Well Construction and Sampling

- a) At a minimum, all monitoring well construction must satisfy the following requirements:
 - 1) Wells must be constructed in a manner that will enable the collection of representative groundwater samples;
 - 2) Wells must be cased in a manner that maintains the integrity of the borehole. Casing material must be inert so as not to affect the water sample. Casing requiring solvent-cement type couplings must not be used;
 - 3) Wells must be screened to allow sampling only at the desired interval. Annular space between the borehole wall and well screen section must be packed with clean, well-rounded and uniform material sized to avoid clogging by the material in the zone being monitored. The slot size of the screen must be designed to minimize clogging. Screens must be fabricated from material that is inert with respect to the constituents of the groundwater to be sampled;
 - 4) Annular space above the well screen section must be sealed with a relatively impermeable, expandable material such as cement/bentonite grout that does not react with or in any way affect the sample, in order to prevent contamination of groundwater samples and groundwater and avoid interconnections. The seal must extend to the highest known seasonal groundwater level;
 - 5) The annular space must be backfilled with expanding cement grout from an elevation below the frost line and mounded above the surface and sloped away from the casing so as to divert surface water away;
 - 6) Wells must be covered with vented caps and equipped with devices to protect against tampering and damage. Locations of wells must be clearly marked and protected against damage from vehicular traffic or other activities associated with expected site use; and
 - 7) Wells must be developed to allow free entry of groundwater, minimize turbidity of the sample, and minimize clogging.

- b) Monitoring well construction diagrams must be completed for each monitoring well. The well construction diagrams must be submitted in the corresponding site investigation plan, site investigation completion report, or corrective action completion report on forms prescribed and provided by the Agency and, if specified by the Agency in writing, in an electronic format.
- c) Static groundwater elevations in each well must be determined and recorded following well construction and prior to each sample collection to determine the gradient of the groundwater table, and must be reported in the corresponding site investigation plan, site investigation completion report or corrective action completion report.

Section 734.435 Sealing of Soil Borings and Groundwater Monitoring Wells

Boreholes and monitoring wells must be abandoned pursuant to regulations promulgated by the Illinois Department of Public Health at 77 Ill. Adm. Code 920.120.

Section 734.440 Site Map Requirements

At a minimum, all site maps submitted to the Agency must meet the following requirements:

- a) The maps must be of sufficient detail and accuracy to show required information;
- b) The maps must contain the map scale, an arrow indicating north orientation, and the date the map was created; and
- c) The maps must show the following:
 - 1) The property boundary lines of the site, properties adjacent to the site, and other properties that are, or may be, adversely affected by the release;
 - 2) The uses of the site, properties adjacent to the site, and other properties that are, or may be, adversely affected by the release;
 - 3) The locations of all current and former USTs at the site, and the contents of each UST; and
 - 4) All structures, other improvements, and other features at the site, properties adjacent to the site, and other properties that are, or may be, adversely affected by the release, including but not limited to buildings, pump islands, canopies, roadways and other paved areas, utilities, easements, rights-of-way, and actual or potential natural or man-made pathways.

Section 734.445 Water Supply Well Survey

- a) At a minimum, the owner or operator must conduct a water supply well survey to identify all potable water supply wells located at the site or within 200 feet of the site, all community water supply wells located at the site or within 2,500 feet of the site, and all regulated recharge areas and wellhead protection areas in which the site is located. Actions taken to identify the wells must include, but not be limited to, the following:
- 1) Contacting the Agency's Division of Public Water Supplies to identify community water supply wells, regulated recharge areas, and wellhead protection areas;
 - 2) Using current information from the Illinois State Geological Survey, the Illinois State Water Survey, and the Illinois Department of Public Health (or the county or local health department delegated by the Illinois Department of Public Health to permit potable water supply wells) to identify potable water supply wells other than community water supply wells; and
 - 3) Contacting the local public water supply entities to identify properties that receive potable water from a public water supply.
- b) In addition to the potable water supply wells identified pursuant to subsection (a) of this Section, the owner or operator must extend the water supply well survey if soil or groundwater contamination exceeding the Tier 1 groundwater ingestion exposure route remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants extends beyond the site's property boundary, or, as part of a corrective action plan, the owner or operator proposes to leave in place soil or groundwater contamination exceeding the Tier 1 groundwater ingestion exposure route remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants and contamination exceeding such objectives is modeled to migrate beyond the site's property boundary. At a minimum, the extended water supply well survey must identify the following:
- 1) All potable water supply wells located within 200 feet, and all community water supply wells located within 2,500 feet, of the current or modeled extent of soil or groundwater contamination exceeding the Tier 1 groundwater ingestion exposure route remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
 - 2) All regulated recharge areas and wellhead protection areas in which the current or modeled extent of soil or groundwater contamination exceeding

the Tier 1 groundwater ingestion exposure route remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants is located.

- c) The Agency may require additional investigation of potable water supply wells, regulated recharge areas, or wellhead protection areas if site-specific circumstances warrant. Such circumstances must include, but not be limited to, the existence of one or more parcels of property within 200 feet of the current or modeled extent of soil or groundwater contamination exceeding the Tier 1 groundwater ingestion exposure route remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants where potable water is likely to be used, but that is not served by a public water supply or a well identified pursuant to subsections (a) or (b) of this Section. The additional investigation may include, but not be limited to, physical well surveys (e.g., interviewing property owners, investigating individual properties for wellheads, distributing door hangers or other material that requests information about the existence of potable wells on the property, etc.).
- d) Documentation of the water supply well survey conducted pursuant to this Section must include, but not be limited to, the following:
 - 1) One or more maps, to an appropriate scale, showing the following:
 - A) The location of the community water supply wells and other potable water supply wells identified pursuant to this Section, and the setback zone for each well;
 - B) The location and extent of regulated recharge areas and wellhead protection areas identified pursuant to this Section;
 - C) The current extent of groundwater contamination exceeding the Tier 1 groundwater ingestion exposure route remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants; and
 - D) The modeled extent of groundwater contamination exceeding the Tier 1 groundwater ingestion exposure route remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants. The information required under this subsection (D) is not required to be shown in a site investigation report if modeling is not performed as part of site investigation;
 - 2) One or more tables listing the setback zones for each community water supply well and other potable water supply wells identified pursuant to this Section;

- 3) A narrative that, at a minimum, identifies each entity contacted to identify potable water supply wells pursuant to this Section, the name and title of each person contacted at each entity, and field observations associated with the identification of potable water supply wells; and
- 4) A certification from a Licensed Professional Engineer or Licensed Professional Geologist that the water supply well survey was conducted in accordance with the requirements of this Section and that the documentation submitted pursuant to subsection (d) of this Section includes the information obtained as a result of the survey.

Section 734.450 Deferred Site Investigation or Corrective Action; Priority List for Payment

- a) An owner or operator who has received approval for any budget submitted pursuant to this Part and who is eligible for payment from the Fund may elect to defer site investigation or corrective action activities until funds are available in an amount equal to the amount approved in the budget if the requirements of subsection (b) of this Section are met.
 - 1) Approvals of budgets must be pursuant to Agency review in accordance with Subpart E of this Part.
 - 2) The Agency must monitor the availability of funds and must provide notice of insufficient funds to owners or operators in accordance with Section 734.505(g) of this Part.
 - 3) Owners and operators must submit elections to defer site investigation or corrective action activities on forms prescribed and provided by the Agency and, if specified by the Agency by written notice, in an electronic format. The Agency's record of the date of receipt must be deemed conclusive unless a contrary date is proven by a dated, signed receipt from certified or registered mail.
 - 4) The Agency must review elections to defer site investigation or corrective action activities to determine whether the requirements of subsection (b) of this Section are met. The Agency must notify the owner or operator in writing of its final action on any such election. If the Agency fails to notify the owner or operator of its final action within 120 days after its

receipt of the election, the owner or operator may deem the election rejected by operation of law.

- A) The Agency must mail notices of final action on an election to defer by registered or certified mail, post marked with a date stamp and with return receipt requested. Final action must be deemed to have taken place on the post marked date that such notice is mailed.
 - B) Any action by the Agency to reject an election, or the rejection of an election by the Agency's failure to act, is subject to appeal to the Board within 35 days after the Agency's final action in the manner provided for the review of permit decisions in Section 40 of the Act.
- 5) Upon approval of an election to defer site investigation or corrective action activities until funds are available, the Agency must place the site on a priority list for payment and notification of availability of sufficient funds. Sites must enter the priority list for payment based solely on the date the Agency receives a complete written election of deferral, with the earliest dates having the highest priority.
 - 6) As funds become available the Agency must encumber funds for each site in the order of priority in an amount equal to the total of the approved budget for which deferral was sought. The Agency must then notify owners or operators that sufficient funds have been allocated for the owner or operator's site. After such notification the owner or operator must commence site investigation or corrective action activities.
 - 7) Authorization of payment of encumbered funds for deferred site investigation or corrective action activities must be approved in accordance with the requirements of Subpart F of this Part.
- b) An owner or operator who elects to defer site investigation or corrective action activities under subsection (a) of this Section must submit a report certified by a Licensed Professional Engineer or Licensed Professional Geologist demonstrating the following:
- 1) The Agency has approved the owner's or operator's site investigation budget or corrective action budget;
 - 2) The owner or operator has been determined eligible to seek payment from the Fund;
 - 3) The early action requirements of Subpart B of this Part have been met;

- 4) Groundwater contamination does not exceed the Tier 1 groundwater ingestion exposure route remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants as a result of the release, modeling in accordance with 35 Ill. Adm. Code 742 shows that groundwater contamination will not exceed such Tier 1 remediation objectives as a result of the release, and no potable water supply wells are impacted as a result of the release; and
 - 5) Soil contamination exceeding the Tier 1 groundwater ingestion exposure route remediation objectives of 35 Ill. Adm. Code 742 for the applicable indicator contaminants does not extend beyond the site's property boundary and is not located within a regulated recharge area, a wellhead protection area, or the setback zone of a potable water supply well. Documentation to demonstrate that this subsection (b)(5) is satisfied must include, but not be limited to, the results of a water supply well survey conducted in accordance with Section 734.445 of this Part.
- c) An owner or operator may, at any time, withdraw the election to defer site investigation or corrective action activities. The Agency must be notified in writing of the withdrawal. Upon such withdrawal, the owner or operator must proceed with site investigation or corrective action, as applicable, in accordance with the requirements of this Part.

SUBPART E: REVIEW OF PLANS, BUDGETS, AND REPORTS

Section 734.500 General

The Agency must have the authority to review any plan, budget, or report, including any amended plan, budget, or report, submitted pursuant to this Part. All such reviews must be subject to the procedures set forth in the Act and this Subpart E.

Section 734.505 Review of Plans, Budgets, or Reports

- a) The Agency may review any or all technical or financial information, or both, relied upon by the owner or operator or the Licensed Professional Engineer or Licensed Professional Geologist in developing any plan, budget, or report selected for review. The Agency may also review any other plans, budgets, or reports submitted in conjunction with the site.
- b) The Agency must have the authority to approve, reject, or require modification of any plan, budget, or report it reviews. The Agency must notify the owner or operator in writing of its final action on any such plan, budget, or report, except in the case of 20 day, 45 day, or free product removal reports, in which case no

notification is necessary. Except as provided in subsections (c) and (d) of this Section, if the Agency fails to notify the owner or operator of its final action on a plan, budget, or report within 120 days after the receipt of a plan, budget, or report, the owner or operator may deem the plan, budget, or report rejected by operation of law. If the Agency rejects a plan, budget, or report or requires modifications, the written notification must contain the following information, as applicable:

- 1) An explanation of the specific type of information, if any, that the Agency needs to complete its review;
 - 2) An explanation of the Sections of the Act or regulations that may be violated if the plan, budget, or report is approved; and
 - 3) A statement of specific reasons why the cited Sections of the Act or regulations may be violated if the plan, budget, or report is approved.
- c) For corrective action plans submitted by owners or operators not seeking payment from the Fund, the Agency may delay final action on such plans until 120 days after it receives the corrective action completion report required pursuant to Section 734.345 of this Part.
- d) An owner or operator may waive the right to a final decision within 120 days after the submittal of a complete plan, budget, or report by submitting written notice to the Agency prior to the applicable deadline. Any waiver must be for a minimum of 60 days.
- e) The Agency must mail notices of final action on plans, budgets, or reports by registered or certified mail, post marked with a date stamp and with return receipt requested. Final action must be deemed to have taken place on the post marked date that such notice is mailed.
- f) Any action by the Agency to reject or require modifications, or rejection by failure to act, of a plan, budget, or report must be subject to appeal to the Board within 35 days after the Agency's final action in the manner provided for the review of permit decisions in Section 40 of the Act.
- g) In accordance with Section 734.450 of this Part, upon the approval of any budget by the Agency, the Agency must include as part of the final notice to the owner or operator a notice of insufficient funds if the Fund does not contain sufficient funds to provide payment of the total costs approved in the budget.

Section 734.510 Standards for Review of Plans, Budgets, or Reports

- a) A technical review must consist of a detailed review of the steps proposed or completed to accomplish the goals of the plan and to achieve compliance with the Act and regulations. Items to be reviewed, if applicable, must include, but not be limited to, number and placement of wells and borings, number and types of samples and analysis, results of sample analysis, and protocols to be followed in making determinations. The overall goal of the technical review for plans must be to determine if the plan is sufficient to satisfy the requirements of the Act and regulations and has been prepared in accordance with generally accepted engineering practices or principles of professional geology. The overall goal of the technical review for reports must be to determine if the plan has been fully implemented in accordance with generally accepted engineering practices or principles of professional geology, if the conclusions are consistent with the information obtained while implementing the plan, and if the requirements of the Act and regulations have been satisfied.
- b) A financial review must consist of a detailed review of the costs associated with each element necessary to accomplish the goals of the plan as required pursuant to the Act and regulations. Items to be reviewed must include, but not be limited to, costs associated with any materials, activities, or services that are included in the budget. The overall goal of the financial review must be to assure that costs associated with materials, activities, and services must be reasonable, must be consistent with the associated technical plan, must be incurred in the performance of corrective action activities, must not be used for corrective action activities in excess of those necessary to meet the minimum requirements of the Act and regulations, and must not exceed the maximum payment amounts set forth in Subpart H of this Part.

SUBPART F: PAYMENT FROM THE FUND

Section 734.600 General

The Agency must have the authority to review any application for payment or reimbursement and to authorize payment or reimbursement from the Fund or such other funds as the legislature directs for corrective action activities conducted pursuant to the Act and this Part. For purposes of this Part and unless otherwise provided, the use of the word "payment" must include reimbursement. The submittal and review of applications for payment and the authorization for payment must be in accordance with the procedures set forth in the Act and this Subpart F.

Section 734.605 Applications for Payment

- a) An owner or operator seeking payment from the Fund must submit to the Agency an application for payment on forms prescribed and provided by the Agency and,

if specified by the Agency by written notice, in an electronic format. The owner or operator may submit an application for partial payment or final payment. Costs for which payment is sought must be approved in a budget, provided, however, that no budget must be required for early action activities conducted pursuant to Subpart B of this Part other than free product removal activities conducted more than 45 days after confirmation of the presence of free product.

- b) A complete application for payment must consist of the following elements:
- 1) A certification from a Licensed Professional Engineer or a Licensed Professional Geologist acknowledged by the owner or operator that the work performed has been in accordance with a technical plan approved by the Agency or, for early action activities, in accordance with Subpart B of this Part;
 - 2) A statement of the amounts approved in the corresponding budget and the amounts actually sought for payment along with a certified statement by the owner or operator that the amounts so sought have been expended in conformance with the elements of a budget approved by the Agency;
 - 3) A copy of the OSFM or Agency eligibility and deductibility determination;
 - 4) Proof that approval of the payment requested will not exceed the limitations set forth in the Act and Section 734.620 of this Part;
 - 5) A federal taxpayer identification number and legal status disclosure certification;
 - 6) Private insurance coverage form(s);
 - 7) A minority/women's business form;
 - 8) Designation of the address to which payment and notice of final action on the application for payment are to be sent;
 - 9) An accounting of all costs, including but not limited to, invoices, receipts, and supporting documentation showing the dates and descriptions of the work performed; and
 - 10) Proof of payment of subcontractor costs for which handling charges are requested. Proof of payment may include cancelled checks, lien waivers, or affidavits from the subcontractor.

- c) The address designated on the application for payment may be changed only by subsequent notification to the Agency, on a form provided by the Agency, of a change in address.
- d) Applications for payment and change of address forms must be mailed or delivered to the address designated by the Agency. The Agency's record of the date of receipt must be deemed conclusive unless a contrary date is proven by a dated, signed receipt from certified or registered mail.
- e) Applications for partial or final payment may be submitted no more frequently than once every 90 days.
- f) Except for applications for payment for costs of early action conducted pursuant to Subpart B of this Part, other than costs associated with free product removal activities conducted more than 45 days after confirmation of the presence of free product, in no case must the Agency review an application for payment unless there is an approved budget on file corresponding to the application for payment.
- g) In no case must the Agency authorize payment to an owner or operator in amounts greater than the amounts approved by the Agency in a corresponding budget. Revised cost estimates or increased costs resulting from revised procedures must be submitted to the Agency for review in accordance with Subpart E of this Part using amended budgets as required under this Part.
- h) Applications for payment of costs associated with a Stage 1, Stage 2, or Stage 3 site investigation may not be submitted prior to the approval or modification of a site investigation plan for the next stage of the site investigation or the site investigation completion report, whichever is applicable.
- i) Applications for payment of costs associated with site investigation or corrective action that was deferred pursuant to Section 734.450 of this Part may not be submitted prior to approval or modification of the corresponding site investigation plan, site investigation completion report, or corrective action completion report.
- j) All applications for payment of corrective action costs must be submitted no later than one year after the date the Agency issues a No Further Remediation Letter pursuant to Subpart G of this Part. For releases for which the Agency issued a No Further Remediation Letter prior to the effective date of this subsection (j), all applications for payment must be submitted no later than one year after the effective date of this subsection (j).

Section 734.610 Review of Applications for Payment

- a) At a minimum, the Agency must review each application for payment submitted pursuant to this Part to determine the following:

- 1) Whether the application contains all of the elements and supporting documentation required by Section 734.605(b) of this Part;
 - 2) For costs incurred pursuant to Subpart B of this Part, other than free product removal activities conducted more than 45 days after confirmation of the presence of free product, whether the amounts sought are reasonable, and whether there is sufficient documentation to demonstrate that the work was completed in accordance with the requirements of this Part;
 - 3) For costs incurred pursuant to Subpart C of this Part and free product removal activities conducted more than 45 days after confirmation of the presence of free product, whether the amounts sought exceed the amounts approved in the corresponding budget, and whether there is sufficient documentation to demonstrate that the work was completed in accordance with the requirements of this Part and a plan approved by the Agency; and
 - 4) Whether the amounts sought are eligible for payment.
- b) When conducting a review of any application for payment, the Agency may require the owner or operator to submit a full accounting supporting all claims as provided in subsection (c) of this Section.
 - c) The Agency's review may include a review of any or all elements and supporting documentation relied upon by the owner or operator in developing the application for payment, including but not limited to a review of invoices or receipts supporting all claims. The review also may include the review of any plans, budgets, or reports previously submitted for the site to ensure that the application for payment is consistent with work proposed and actually performed in conjunction with the site.
 - d) Following a review, the Agency must have the authority to approve, deny or require modification of applications for payment or portions thereof. The Agency must notify the owner or operator in writing of its final action on any such application for payment. Except as provided in subsection (e) of this Section, if the Agency fails to notify the owner or operator of its final action on an application for payment within 120 days after the receipt of a complete application for payment, the owner or operator may deem the application for payment approved by operation of law. If the Agency denies payment for an application for payment or for a portion thereof or requires modification, the written notification must contain the following information, as applicable:
 - 1) An explanation of the specific type of information, if any, that the Agency needs to complete the review;

- 2) An explanation of the Sections of the Act or regulations that may be violated if the application for payment is approved; and
 - 3) A statement of specific reasons why the cited Sections of the Act or regulations may be violated if the application for payment is approved.
- e) An owner or operator may waive the right to a final decision within 120 days after the submittal of a complete application for payment by submitting written notice to the Agency prior to the applicable deadline. Any waiver must be for a minimum of 30 days.
 - f) The Agency must mail notices of final action on applications for payment by registered or certified mail, post marked with a date stamp and with return receipt requested. Final action must be deemed to have taken place on the post marked date that such notice is mailed. The Agency must mail notices of final action on applications for payment, and direct the Comptroller to mail payments to the owner or operator, at the address designated for receipt of payment in the application for payment or on a change of address form, provided by the Agency, submitted subsequent to submittal of the application for payment.
 - g) Any action by the Agency to deny payment for an application for payment or portion thereof or to require modification must be subject to appeal to the Board within 35 days after the Agency's final action in the manner provided for the review of permit decisions in Section 40 of the Act.

Section 734.615 Authorization for Payment; Priority List

- a) Within 60 days after notification to an owner or operator that the application for payment or a portion thereof has been approved by the Agency or by operation of law, the Agency must forward to the Office of the State Comptroller in accordance with subsection (d) or (e) of this Section a voucher in the amount approved. If the owner or operator has filed an appeal with the Board of the Agency's final decision on an application for payment, the Agency must have 60 days after the final resolution of the appeal to forward to the Office of the State Comptroller a voucher in the amount ordered as a result of the appeal. Notwithstanding the time limits imposed by this Section, the Agency must not forward vouchers to the Office of the State Comptroller until sufficient funds are available to issue payment.
- b) The following rules must apply regarding deductibles:
 - 1) Any deductible, as determined by the OSFM or the Agency, must be subtracted from any amount approved for payment by the Agency or by operation of law, or ordered by the Board or courts;
 - 2) Only one deductible must apply per occurrence;

- 3) If multiple incident numbers are issued for a single site in the same calendar year, only one deductible must apply for those incidents, even if the incidents relate to more than one occurrence; and
 - 4) Where more than one deductible determination is made, the higher deductible must apply.
- c) The Agency must instruct the Office of the State Comptroller to issue payment to the owner or operator at the address designated in accordance with Sections 734.605(b)(8) or (c) of this Part. In no case must the Agency authorize the Office of the State Comptroller to issue payment to an agent, designee, or entity that has conducted corrective action activities for the owner or operator.
 - d) For owners or operators who have deferred site classification or corrective action in accordance with Section 734.450 of this Part, payment must be authorized from funds encumbered pursuant to Section 734.450(a)(6) of this Part upon approval of the application for payment by the Agency or by operation of law.
 - e) For owners or operators not electing to defer site investigation or corrective action in accordance with Section 734.450 of this Part, the Agency must form a priority list for payment for the issuance of vouchers pursuant to subsection (a) of this Section.
 - 1) All such applications for payment must be assigned a date that is the date upon which the complete application for partial or final payment was received by the Agency. This date must determine the owner's or operator's priority for payment in accordance with subsection (e)(2) of this Section, with the earliest dates receiving the highest priority.
 - 2) Once payment is approved by the Agency or by operation of law or ordered by the Board or courts, the application for payment must be assigned priority in accordance with subsection (e)(1) of this Section. The assigned date must be the only factor determining the priority for payment for those applications approved for payment.

Section 734.620 Limitations on Total Payments

- a) Limitations per occurrence:
 - 1) *The Agency shall not approve any payment from the Fund to pay an owner or operator for costs of corrective action incurred by such owner or operator in an amount in excess of \$1,500,000 per occurrence [415 ILCS 5/57.8(g)(1)]; and*

2) *The Agency shall not approve any payment from the Fund to pay an owner or operator for costs of indemnification of such owner or operator in an amount in excess of \$1,500,000 per occurrence [415 ILCS 5/57.8(g)(2)].*

b) *Aggregate limitations:*

1) *Notwithstanding any other provision of this Part, the Agency shall not approve payment to an owner or operator from the Fund for costs of corrective action or indemnification incurred during a calendar year in excess of the following amounts based on the number of petroleum underground storage tanks owned or operated by such owner or operator in Illinois:*

A) *For calendar years prior to 2002:*

<i>Amount</i>	<i>Number of Tanks</i>
<i>\$1,000,000</i>	<i>fewer than 101</i>
<i>\$2,000,000</i>	<i>101 or more</i>

B) *For calendar years 2002 and later:*

<i>Amount</i>	<i>Number of Tanks</i>
<i>\$2,000,000</i>	<i>fewer than 101</i>
<i>\$3,000,000</i>	<i>101 or more</i>

[415 ILCS 5/57.8(d)].

2) *Costs incurred in excess of the aggregate amounts set forth in subsection (b)(1) of this Section shall not be eligible for payment in subsequent years [415 ILCS 5/57.8(d)(1)].*

c) *For purposes of subsection (b) of this Section, requests submitted by any of the agencies, departments, boards, committees or commissions of the State of Illinois shall be acted upon as claims from a single owner or operator [415 ILCS 5/57.8(d)(2)].*

d) *For purposes of subsection (b) of this Section, owner or operator includes;*

- 1) *any subsidiary, parent, or joint stock company of the owner or operator, and*
- 2) *any company owned by any parent, subsidiary, or joint stock company of the owner or operator [415 ILCS 5/57.8(d)(3)].*

Section 734.625 Eligible Corrective Action Costs

- a) Types of costs that may be eligible for payment from the Fund include those for corrective action activities and for materials or services provided or performed in conjunction with corrective action activities. Such activities and services may include, but are not limited to, reasonable costs for:
- 1) Early action activities conducted pursuant to Subpart B of this Part;
 - 2) Engineer or geologist oversight services;
 - 3) Remedial investigation and design;
 - 4) Laboratory services necessary to determine site investigation and whether the established remediation objectives have been met;
 - 5) The installation and operation of groundwater investigation and groundwater monitoring wells;
 - 6) The removal, treatment, transportation, and disposal of soil contaminated by petroleum at levels in excess of the established remediation objectives;
 - 7) The removal, treatment, transportation, and disposal of water contaminated by petroleum at levels in excess of the established remediation objectives;
 - 8) The placement of clean backfill to grade to replace excavated soil contaminated by petroleum at levels in excess of the established remediation objectives;
 - 9) Groundwater corrective action systems;
 - 10) Alternative technology, including but not limited to feasibility studies approved by the Agency;
 - 11) Recovery of free product exceeding one-eighth of an inch in depth as measured in a groundwater monitoring well, or present as a sheen on groundwater in the tank removal excavation or on surface water;
 - 12) The removal and disposal of any UST if a release of petroleum from the UST was identified and IEMA was notified prior to its removal, with the exception of any UST deemed ineligible by the OSFM;
 - 13) Costs incurred as a result of a release of petroleum because of vandalism, theft, or fraudulent activity by a party other than an owner or operator or agent of an owner or operator;

- 14) Engineer or geologist costs associated with seeking payment from the Fund including but not limited to completion of an application for partial or final payment;
- 15) Costs associated with obtaining an Eligibility and Deductibility Determination from the OSFM or the Agency;
- 16) Costs for destruction and replacement of concrete, asphalt, or paving to the extent necessary to conduct corrective action if the concrete, asphalt, or paving was installed prior to the initiation of corrective action activities, the destruction and replacement has been certified as necessary to the performance of corrective action by a Licensed Professional Engineer, and the destruction and replacement and its costs are approved by the Agency in writing prior to the destruction and replacement. The destruction and replacement of concrete, asphalt, and paving must not be paid more than once. Costs associated with the replacement of concrete, asphalt, or paving must not be paid in excess of the cost to install, in the same area and to the same depth, the same material that was destroyed (e.g., replacing four inches of concrete with four inches of concrete);
- 17) The destruction or dismantling and reassembly of above grade structures in response to a release of petroleum if such activity has been certified as necessary to the performance of corrective action by a Licensed Professional Engineer and such activity and its costs are approved by the Agency in writing prior to the destruction or dismantling and re-assembly. Such costs must not be paid in excess of a total of \$10,000 per occurrence. For purposes of this subsection (a)(17), destruction, dismantling, or reassembly of above grade structures does not include costs associated with replacement of pumps, pump islands, buildings, wiring, lighting, bumpers, posts, or canopies;
- 18) Preparation of reports submitted pursuant to Section 734.210(h)(3) of this Part, free product removal plans and associated budgets, free product removal reports, site investigation plans and associated budgets, site investigation completion reports, corrective action plans and associated budgets, and corrective action completion reports;
- 19) Costs associated with the removal or abandonment of a potable water supply well, and replacement of the well or connection to a public water supply, whichever is less, if a Licensed Professional Engineer or Licensed Professional Geologist certifies that such activity is necessary to the performance of corrective action and that the property served by the well cannot receive an adequate supply of potable water from an existing source other than the removed or abandoned well, and the Agency approves such activity in writing. If the well being removed or abandoned

is a public water supply well, the Licensed Professional Engineer or Licensed Professional Geologist is required to certify only that the removal or abandonment of the well is necessary to the performance of corrective action; and

- 20) Costs associated with the repair or replacement of potable water supply lines damaged to the point of requiring repair or replacement as a direct result of the release, if such activity is certified by a Licensed Professional Engineer or Licensed Professional Geologist as necessary for the protection of the potable water supply and approved by the Agency in writing.
- b) An owner or operator may submit a budget or application for partial or final payment that includes an itemized accounting of costs associated with activities, materials, or services not identified in subsection (a) of this Section if the owner or operator submits detailed information demonstrating that the activities, materials, or services not identified in subsection (a) of this Section are essential to the completion of the minimum corrective action requirements of the Act and this Part.

Section 734.630 Ineligible Corrective Action Costs

Costs ineligible for payment from the Fund include but are not limited to:

- a) Costs for the removal, treatment, transportation, and disposal of more than four feet of fill material from the outside dimensions of the UST, as set forth in Section 734.Appendix C of this Part, during early action activities conducted pursuant to Section 734.210(f) of this Part, and costs for the replacement of contaminated fill materials with clean fill materials in excess of the amounts set forth in Section 734.Appendix C of this Part during early action activities conducted pursuant to Section 734.210(f) of this Part;
- b) Costs or losses resulting from business interruption;
- c) Costs incurred as a result of vandalism, theft, or fraudulent activity by the owner or operator or agent of an owner or operator, including the creation of spills, leaks, or releases;
- d) Costs associated with the replacement of above grade structures such as pumps, pump islands, buildings, wiring, lighting, bumpers, posts, or canopies, including but not limited to those structures destroyed or damaged during corrective action activities;
- e) *Costs of corrective action incurred by an owner or operator prior to July 28, 1989 [415 ILCS 5/57.8(j)];*

- f) Costs associated with the procurement of a generator identification number;
- g) Legal fees or costs, including but not limited to legal fees or costs for seeking payment under this Part unless the owner or operator prevails before the Board and the Board authorizes payment of such costs;
- h) Purchase costs of non-expendable materials, supplies, equipment, or tools, except that a reasonable rate may be charged for the usage of such materials, supplies, equipment, or tools;
- i) Costs associated with activities that violate any provision of the Act or Board, OSFM, or Agency regulations;
- j) Costs associated with investigative action, preventive action, corrective action, or enforcement action taken by the State of Illinois if the owner or operator failed, without sufficient cause, to respond to a release or substantial threat of a release upon, or in accordance with, a notice issued by the Agency pursuant to Section 734.125 of this Part and Section 57.12 of the Act;
- k) Costs for removal, disposal, or abandonment of UST if the tank was removed or abandoned, or permitted for removal or abandonment, by the OSFM before the owner or operator provided notice to IEMA of a release of petroleum;
- l) Costs associated with the installation of new USTs, the repair of existing USTs, and removal and disposal of USTs determined to be ineligible by the OSFM;
- m) Costs exceeding those contained in a budget or amended budget approved by the Agency;
- n) Costs of corrective action incurred before providing notification of the release of petroleum to IEMA in accordance with Section 734.210 of this Part;
- o) Costs for corrective action activities and associated materials or services exceeding the minimum requirements necessary to comply with the Act;
- p) Costs associated with improperly installed sampling or monitoring wells;
- q) Costs associated with improperly collected, transported, or analyzed laboratory samples;
- r) Costs associated with the analysis of laboratory samples not approved by the Agency;
- s) Costs for any corrective activities, services, or materials unless accompanied by a letter from OSFM or the Agency confirming eligibility and deductibility in accordance with Section 57.9 of the Act;

- t) Interest or finance costs charged as direct costs;
- u) Insurance costs charged as direct costs;
- v) Indirect corrective action costs for personnel, materials, service, or equipment charged as direct costs;
- w) Costs associated with the compaction and density testing of backfill material;
- x) Costs associated with sites that have not reported a release to IEMA or are not required to report a release to IEMA;
- y) Costs related to activities, materials, or services not necessary to stop, minimize, eliminate, or clean up a release of petroleum or its effects in accordance with the minimum requirements of the Act and regulations;
- z) Costs of alternative technology that exceed the costs of conventional technology;
- aa) Costs for activities and related services or materials that are unnecessary, inconsistent with generally accepted engineering practices or principles of professional geology, or unreasonable costs for justifiable activities, materials, or services;
- bb) Costs requested that are based on mathematical errors;
- cc) Costs that lack supporting documentation;
- dd) Costs proposed as part of a budget that are unreasonable;
- ee) Costs incurred during early action that are unreasonable;
- ff) Costs incurred on or after the date the owner or operator enters the Site Remediation Program under Title XVII and 35 Ill. Adm. Code 740 to address the UST release;
- gg) Costs incurred after receipt of a No Further Remediation Letter for the occurrence for which the No Further Remediation Letter was received. This subsection (gg) does not apply to the following:
 - 1) Costs incurred for MTBE remediation pursuant to Section 734.405(i)(2) of this Part;
 - 2) Monitoring well abandonment costs;

- 3) County recorder or registrar of titles fees for recording the No Further Remediation Letter;
 - 4) Costs associated with seeking payment from the Fund; and
 - 5) Costs associated with remediation to Tier 1 remediation objectives on-site if a court of law voids or invalidates a No Further Remediation Letter and orders the owner or operator to achieve Tier 1 remediation objectives in response to the release;
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- hh) Handling charges for subcontractor costs that have been billed directly to the owner or operator;
 - ii) Handling charges for subcontractor costs when the contractor has not submitted proof of payment of the subcontractor costs;
 - jj) Costs associated with standby and demurrage;
 - kk) Costs associated with a corrective action plan incurred after the Agency notifies the owner or operator, pursuant to Section 734.355(b) of this Part, that a revised corrective action plan is required, provided, however, that costs associated with any subsequently approved corrective action plan will be eligible for payment if they meet the requirements of this Part;
 - ll) Costs incurred prior to the effective date of an owner's or operator's election to proceed in accordance with this Part, unless such costs were incurred for activities approved as corrective action under this Part;
 - mm) Costs associated with the preparation of free product removal reports not submitted in accordance with the schedule established in Section 734.215(a)(5) of this Part;
 - nn) Costs submitted more than one year after the date the Agency issues a No Further Remediation Letter pursuant to Subpart G of this Part;
 - oo) Handling charges for subcontractor costs where any person with a direct or indirect financial interest in the contractor has a direct or indirect financial interest in the subcontractor;
 - pp) Costs for the destruction and replacement of concrete, asphalt, or paving, except as otherwise provided in Section 734.625(a)(16) of this Part;

- qq) Costs incurred as a result of the destruction of, or damage to, any equipment, fixtures, structures, utilities, or other items during corrective action activities, except as otherwise provided in Sections 734.625(a)(16) or (17) of this Part;
- rr) Costs associated with oversight by an owner or operator;
- ss) Handling charges charged by persons other than the owner's or operator's primary contractor;
- tt) Costs associated with the installation of concrete, asphalt, or paving as an engineered barrier to the extent they exceed the cost of installing an engineered barrier constructed of asphalt four inches in depth. This subsection does not apply if the concrete, asphalt, or paving being used as an engineered barrier was replaced pursuant to Section 734.625(a)(16) of this Part;
- uu) The treatment or disposal of soil that does not exceed the applicable remediation objectives for the release, unless approved by the Agency in writing prior to the treatment or disposal;
- vv) Costs associated with the removal or abandonment of a potable water supply well, or the replacement of such a well or connection to a public water supply, except as otherwise provided in Section 734.625(a)(19) of this Part;
- ww) Costs associated with the repair or replacement of potable water supply lines, except as otherwise provided in Section 734.625(a)(20) of this Part;
- xx) Costs associated with the replacement of underground structures or utilities, including but not limited to septic tanks, utility vaults, sewer lines, electrical lines, telephone lines, cable lines, or water supply lines, except as otherwise provided in Sections 734.625(a)(19) or (20) of this Part;
- yy) For sites electing under Section 734.105 of this Part to proceed in accordance with this Part, costs incurred pursuant to Section 734.210 of this Part;
- zz) Costs associated with the maintenance, repair, or replacement of leased or subcontracted equipment, other than costs associated with routine maintenance that are approved in a budget;
- aaa) Costs that exceed the ~~maximum payment amounts~~ Expedited Unit Rate set forth in Subpart H of this Part provided that no Alternative Expedited Unit Rate has been proposed/approved;
- bbb) Costs associated with on-site corrective action to achieve remediation objectives that are more stringent than the Tier 2 remediation objectives developed in accordance with 35 Ill. Adm. Code 742. This subsection (bbb) does not apply if Karst geology prevents the development of Tier 2 remediation objectives for on-

site remediation, or if a court of law voids or invalidates a No Further Remediation Letter and orders the owner or operator to achieve Tier 1 remediation objectives on-site in response to the release.

- ccc) Costs associated with groundwater remediation if a groundwater ordinance already approved by the Agency for use as an institutional control in accordance with 35 Ill. Adm. Code 742 can be used as an institutional control for the release being remediated.

Section 734.635 Payment for Handling Charges

Handling charges are eligible for payment only if they are equal to or less than the amount determined by the following table:

Subcontract or Field Purchase Cost:	Eligible Handling Charges as a Percentage of Cost:
\$0 - \$5,000.....	12%
\$5,001 - \$15,000.....	\$600 + 10% of amt. over \$5,000
\$15,001 - \$50,000.....	\$1,600 + 8% of amt. over \$15,000
\$50,001 - \$100,000.....	\$4,400 + 5% of amt. over \$50,000
\$100,001 - \$1,000,000.....	\$6,900 + 2% of amt. over \$100,000

Section 734.640 Apportionment of Costs

- a) The Agency may apportion payment of costs if:
 - 1) *The owner or operator was deemed eligible to access the Fund for payment of corrective action costs for some, but not all, of the underground storage tanks at the site; and*
 - 2) *The owner or operator failed to justify all costs attributable to each underground storage tank at the site. [415 ILCS 5/57.8(m)]*
- b) The Agency will determine, based on volume or number of tanks, which method of apportionment will be most favorable to the owner or operator. The Agency will notify the owner or operator of such determination in writing.

Section 734.645 Subrogation of Rights

Payment of any amount from the fund for corrective action or indemnification shall be subject to the State acquiring by subrogation the rights of any owner, operator, or other person to recover

the costs of corrective action or indemnification for which the fund has compensated such owner, operator, or person from the person responsible or liable for the release [415 ILCS 5/57.8(h)].

Section 734.650 Indemnification

- a) An owner or operator seeking indemnification from the Fund for payment of costs incurred as a result of a release of petroleum from an underground storage tank must submit to the Agency a request for payment on forms prescribed and provided by the Agency and, if specified by the Agency by written notice, in an electronic format.
 - 1) A complete application for payment must contain the following:
 - A) A certified statement by the owner or operator of the amount sought for payment;
 - B) Proof of the legally enforceable judgment, final order, or determination against the owner or operator, or the legally enforceable settlement entered into by the owner or operator, for which indemnification is sought. The proof must include, but not be limited to, the following:
 - i) A copy of the judgment certified by the court clerk as a true and correct copy, a copy of the final order or determination certified by the issuing agency of State government or subdivision thereof as a true and correct copy, or a copy of the settlement certified by the owner or operator as a true and correct copy; and
 - ii) Documentation demonstrating that the judgment, final order, determination, or settlement arises out of bodily injury or property damage suffered as a result of a release of petroleum from the UST for which the release was reported, and that the UST is owned or operated by the owner or operator;
 - C) A copy of the OSFM or Agency eligibility and deductibility determination;
 - D) Proof that approval of the indemnification requested will not exceed the limitations set forth in the Act and Section 734.620 of this Part;
 - E) A federal taxpayer identification number and legal status disclosure certification;

- F) A private insurance coverage form; and
 - G) Designation of the address to which payment and notice of final action on the request for indemnification are to be sent to the owner or operator.
- 2) The owner's or operator's address designated on the application for payment may be changed only by subsequent notification to the Agency, on a form provided by the Agency, of a change of address.
 - 3) Applications for payment must be mailed or delivered to the address designated by the Agency. The Agency's record of the date of receipt must be deemed conclusive unless a contrary date is proven by a dated, signed receipt from certified or registered mail.
- b) The Agency must review applications for payment in accordance with this Subpart F. In addition, the Agency must review each application for payment to determine the following:
- 1) Whether the application contains all of the information and supporting documentation required by subsection (a) of this Section;
 - 2) Whether there is sufficient documentation of a legally enforceable judgment entered against the owner or operator in a court of law, final order or determination made against the owner or operator by an agency of State government or any subdivision thereof, or settlement entered into by the owner or operator;
 - 3) Whether there is sufficient documentation that the judgment, final order, determination, or settlement arises out of bodily injury or property damage suffered as a result of a release of petroleum from an underground storage tank owned or operated by the owner or operator; and
 - 4) Whether the amounts sought for indemnification are eligible for payment.
- c) If the application for payment of the costs of indemnification is deemed complete and otherwise satisfies all applicable requirements of this Subpart F, the Agency must forward the request for indemnification to the Office of the Attorney General for review and approval in accordance with Section 57.8(c) of the Act. The owner or operator's request for indemnification must not be placed on the priority list for payment until the Agency has received the written approval of the Attorney General. The approved application for payment must then enter the priority list established at Section 734.615(e)(1) of this Part based on the date the complete application was received by the Agency in accordance with Section 57.8(c) of the Act.

- d) Costs ineligible for indemnification from the Fund include, but are not limited to:
- 1) Amounts an owner or operator is not legally obligated to pay pursuant to a judgment entered against the owner or operator in court of law, a final order or determination made against the owner or operator by an agency of State government or any subdivision thereof, or any settlement entered into by the owner or operator;
 - 2) Amounts of a judgment, final order, determination, or settlement that do not arise out of bodily injury or property damage suffered as a result of a release of petroleum from an underground storage tank owned or operated by the owner or operator;
 - 3) Amounts incurred prior to July 28, 1989;
 - 4) Amounts incurred prior to notification of the release of petroleum to IEMA in accordance with Section 734.210 of this Part;
 - 5) Amounts arising out of bodily injury or property damage suffered as a result of a release of petroleum from an underground storage tank for which the owner or operator is not eligible to access the Fund;
 - 6) Legal fees or costs, including but not limited to legal fees or costs for seeking payment under this Part unless the owner or operator prevails before the Board and the Board authorizes payment of such costs;
 - 7) Amounts associated with activities that violate any provision of the Act or Board, OSFM, or Agency regulations;
 - 8) Amounts associated with investigative action, preventive action, corrective action, or enforcement action taken by the State of Illinois if the owner or operator failed, without sufficient cause, to respond to a release or substantial threat of a release upon, or in accordance with, a notice issued by the Agency pursuant to Section 734.125 of this Part and Section 57.12 of the Act;
 - 9) Amounts associated with a release that has not been reported to IEMA or is not required to be reported to IEMA;
 - 10) Amounts incurred on or after the date the owner or operator enters the Site Remediation Program under Title XVII and 35 Ill. Adm. Code 740 to address the UST release; and
 - 11) Amounts incurred prior to the effective date of the owner's or operator's election to proceed in accordance with this Part.

Section 734.655 Costs Covered by Insurance, Agreement, or Court Order

Costs of corrective action or indemnification incurred by an owner or operator which have been paid to an owner or operator under a policy of insurance, another written agreement, or a court order are not eligible for payment from the Fund. An owner or operator who receives payment under a policy of insurance, another written agreement, or a court order shall reimburse the State to the extent such payment covers costs for which payment was received from the Fund [415 ILCS 5/57.8(e)].

Section 734.660 Determination and Collection of Excess Payments

- a) If, for any reason, the Agency determines that an excess payment has been paid from the Fund, the Agency may take steps to collect the excess amount pursuant to subsection (c) of this Section.
 - 1) Upon identifying an excess payment, the Agency must notify the owner or operator receiving the excess payment by certified or registered mail, return receipt requested.
 - 2) The notification letter must state the amount of the excess payment and the basis for the Agency's determination that the payment is in error.
 - 3) The Agency's determination of an excess payment must be subject to appeal to the Board in the manner provided for the review of permit decisions in Section 40 of the Act.
- b) An excess payment from the Fund includes, but is not limited to:
 - 1) Payment for a non-corrective action cost;
 - 2) Payment in excess of the limitations on payments set forth in Sections 734.620 and 734.635 and Subpart H of this Part;
 - 3) Payment received through fraudulent means;
 - 4) Payment calculated on the basis of an arithmetic error;
 - 5) Payment calculated by the Agency in reliance on incorrect information; or
 - 6) Payment of costs that are not eligible for payment.
- c) Excess payments may be collected using any of the following procedures:

- 1) Upon notification of the determination of an excess payment in accordance with subsection (a) of this Section or pursuant to a Board order affirming such determination upon appeal, the Agency may attempt to negotiate a payment schedule with the owner or operator. Nothing in this subsection (c)(1) of this Section must prohibit the Agency from exercising at any time its options at subsection (c)(2) or (c)(3) of this Section or any other collection methods available to the Agency by law.
- 2) If an owner or operator submits a subsequent claim for payment after previously receiving an excess payment from the Fund, the Agency may deduct the excess payment amount from any subsequently approved payment amount. If the amount subsequently approved is insufficient to recover the entire amount of the excess payment, the Agency may use the procedures in this Section or any other collection methods available to the Agency by law to collect the remainder.
- 3) The Agency may deem an excess payment amount to be a claim or debt owed the Agency, and the Agency may use the Comptroller's Setoff System for collection of the claim or debt in accordance with Section 10.5 of the "State Comptroller Act." 15 ILCS 405/10.05 (1993).

Section 734.665 Audits and Access to Records; Records Retention

- a) Owners or operators that submit a report, plan, budget, application for payment, or any other data or document under this Part, and Licensed Professional Engineers and Licensed Professional Geologists that certify such report, plan, budget, application for payment, data, or document, must maintain all books, records, documents, and other evidence directly pertinent to the report, plan, budget, application for payment, data, or document, including but not limited to all financial information and data used in the preparation or support of applications for payment. All books, records, documents, and other evidence must be maintained in accordance with accepted business practices and appropriate accounting procedures and practices.
- b) The Agency or any of its duly authorized representatives must have access to the books, records, documents, and other evidence set forth in subsection (a) of this Section during normal business hours for the purpose of inspection, audit, and copying. Owners, operators, Licensed Professional Engineers, and Licensed Professional Geologists must provide proper facilities for such access and inspection.
- c) Owners, operators, Licensed Professional Engineers, and Licensed Professional Geologists must maintain the books, records, documents, and other evidence set forth in subsection (a) of this Section and make them available to the Agency or its authorized representative until the latest of the following:

- 1) The expiration of 4 years after the date the Agency issues a No Further Remediation Letter issued pursuant to Subpart G of this Part;
- 2) For books, records, documents, or other evidence relating to an appeal, litigation, or other dispute or claim, the expiration of 3 years after the date of the final disposition of the appeal, litigation, or other dispute or claim;
or
- 3) The expiration of any other applicable record retention period.

SUBPART G: NO FURTHER REMEDIATION LETTERS AND RECORDING REQUIREMENTS

Section 734.700 General

Subpart G provides the procedures for the issuance of No Further Remediation Letters under Title XVI and this Part. Subpart G also sets forth the recording requirements and the circumstances under which the letter may be voidable.

Section 734.705 Issuance of a No Further Remediation Letter

- a) Upon approval by the Agency of a report submitted pursuant to Section 734.210(h)(3) of this Part or a corrective action completion report, the Agency must issue to the owner or operator a No Further Remediation Letter. The No Further Remediation Letter must have the legal effect prescribed in Section 57.10 of the Act. The No Further Remediation Letter must be denied if the Agency rejects or requires modification of the applicable report.
- b) The Agency must have 120 days after the date of receipt of the applicable report to issue a No Further Remediation Letter and may include the No Further Remediation Letter as part of the notification of approval of the report in accordance with Subpart E of this Part. If the Agency fails to send the No Further Remediation Letter within 120 days, it must be deemed denied by operation of law.
- c) The notice of denial of a No Further Remediation Letter by the Agency may be included with the notification of rejection or modification of the applicable report. The reasons for the denial of the letter must be stated in the notification. The denial must be considered a final determination appealable to the Board within 35 days after the Agency's final action in the manner provided for the review of permit decisions in Section 40 of the Act. If any request for a No Further

Remediation Letter is denied by operation of law, in lieu of an immediate appeal to the Board the owner or operator may either resubmit the request and applicable report to the Agency or file a joint request for a 90 day extension in the manner provided for extensions of permit decision in Section 40 of the Act.

- d) The Agency must mail the No Further Remediation Letter by registered or certified mail, post marked with a date stamp and with return receipt requested. Final action must be deemed to have taken place on the post marked date that the letter is mailed.
- e) The Agency at any time may correct errors in No Further Remediation Letters that arise from oversight, omission, or clerical mistake. Upon correction of the No Further Remediation Letter, the Agency must mail the corrected letter to the owner or operator as set forth in subsection (d) of this Section. The corrected letter must be perfected by recording in accordance with the requirements of Section 734.715 of this Part.

Section 734.710 Contents of a No Further Remediation Letter

A No Further Remediation Letter issued pursuant to this Part must include all of the following:

- a) An acknowledgment that the requirements of the applicable report were satisfied;
- b) A description of the location of the affected property by adequate legal description or by reference to a plat showing its boundaries, or, for the purposes of Section 734.715(d) of this Part, other means sufficient to identify the site location with particularity;
- c) A statement that the remediation objectives were determined in accordance with 35 Ill. Adm. Code 742, and the identification of any land use limitation, as applicable, required by 35 Ill. Adm. Code 742 as a condition of the remediation objectives;
- d) A statement that the Agency's issuance of the No Further Remediation Letter signifies that:
 - 1) *All statutory and regulatory corrective action requirements applicable to the occurrence have been complied with;*
 - 2) *All corrective action concerning the remediation of the occurrence has been completed; and*
 - 3) *No further corrective action concerning the occurrence is necessary for the protection of human health, safety and the environment [415 ILCS 5/57.10(c)(1)-(3)], or, if the No Further Remediation Letter is issued*

pursuant to Section 734.350(e) of this Part, that the owner or operator has demonstrated to the Agency's satisfaction an inability to obtain access to an off-site property despite best efforts and therefore is not required to perform corrective action on the off-site property in order to satisfy the corrective action requirements of this Part, but is not relieved of responsibility to clean up portions of the release that have migrated off-site.

- e) The prohibition under Section 734.715(e) of this Part against the use of any site in a manner inconsistent with any applicable land use limitation, without additional appropriate remedial activities;
- f) A description of any approved preventive, engineering, and institutional controls identified in the plan or report and notification that failure to manage the controls in full compliance with the terms of the plan or report may result in avoidance of the No Further Remediation Letter;
- g) The recording obligations pursuant to Section 734.715 of this Part;
- h) The opportunity to request a change in the recorded land use pursuant to Section 734.715(e) of this Part;
- i) Notification that further information regarding the site can be obtained from the Agency through a request under the Freedom of Information Act [5 ILCS 140]; and
- j) Any other provisions agreed to by the Agency and the owner or operator.

Section 734.715 Duty to Record a No Further Remediation Letter

- a) Except as provided in subsections (c) and (d) of this Section, an owner or operator receiving a No Further Remediation Letter from the Agency pursuant to this Subpart G must submit the letter, with a copy of any applicable institutional controls (as set forth in 35 Ill. Adm. Code 742, Subpart J) proposed as part of a corrective action completion report, to the Office of the Recorder or the Registrar of Titles of the county in which the site is located within 45 days after receipt of the letter. The letter and any attachments must be filed in accordance with Illinois law so that they form a permanent part of the chain of title for the site. Upon the lapse of the 45 day period for recording, pursuant to Section 734.720(a)(5) of this Part the Agency may void an unrecorded No Further Remediation Letter for failure to record it in a timely manner.
- b) Except as provided in subsections (c) and (d) of this Section, a No Further Remediation Letter must be perfected upon the date of the official recording of such letter. The owner or operator must obtain and submit to the Agency, within

30 days after the official recording date, a certified or otherwise accurate and official copy of the letter and any attachments as recorded. An unperfected No Further Remediation Letter is effective only as between the Agency and the owner or operator.

- c) For sites located in a highway authority right-of-way, the following requirements must apply:
- 1) In order for the No Further Remediation Letter to be perfected, the highway authority with jurisdiction over the right-of-way must enter into a Memorandum of Agreement (MOA) with the Agency. The MOA must include, but is not limited to:
 - A) The name of the site, if any, and any highway authority or Agency identifiers (e.g., incident number, Illinois inventory identification number);
 - B) The address of the site (or other description sufficient to identify the location of the site with certainty);
 - C) A copy of the No Further Remediation Letter for each site subject to the MOA;
 - D) Procedures for tracking sites subject to the MOA so that all highway authority offices and personnel whose responsibilities (e.g., land acquisition, maintenance, construction, utility permits) may affect land use limitations will have notice of any environmental concerns and land use limitations applicable to a site;
 - E) Provisions addressing future conveyances (including title or any lesser form of interest) or jurisdictional transfers of the site to any other agency, private person or entity and the steps that will be taken to ensure the long-term integrity of any land use limitations including, but not limited to, the following:
 - i) Upon creation of a deed, the recording of the No Further Remediation Letter and any other land use limitations requiring recording under 35 Ill. Adm. Code 742, with copies of the recorded instruments sent to the Agency within 30 days after recording;
 - ii) Any other arrangements necessary to ensure that property that is conveyed or transferred remains subject to any land use limitations approved and implemented as part of the

corrective action plan and the No Further Remediation Letter; and

- iii) Notice to the Agency at least 60 days prior to any such intended conveyance or transfer indicating the mechanism(s) to be used to ensure that any land use limitations will be operated or maintained as required in the corrective action plan and No Further Remediation Letter; and
 - F) Provisions for notifying the Agency if any actions taken by the highway authority or its permittees at the site result in the failure or inability to restore the site to meet the requirements of the corrective action plan and the No Further Remediation Letter.
- 2) Failure to comply with the requirements of this subsection (c) may result in voidance of the No Further Remediation Letter pursuant to Section 734.720 of this Part as well as any other penalties that may be available.
- d) For sites located on Federally Owned Property for which the Federal Landholding Entity does not have the authority under federal law to record institutional controls on the chain of title, the following requirements must apply:
- 1) To perfect a No Further Remediation Letter containing any restriction on future land use(s), the Federal Landholding Entity or Entities responsible for the site must enter into a Land Use Control Memorandum of Agreement (LUC MOA) with the Agency that requires the Federal Landholding Entity to do, at a minimum, the following:
 - A) Identify the location on the Federally Owned Property of the site subject to the No Further Remediation Letter. Such identification must be by means of common address, notations in any available facility master land use plan, site specific GIS or GPS coordinates, plat maps, or any other means that identify the site in question with particularity;
 - B) Implement periodic site inspection procedures that ensure oversight by the Federal Landholding Entities of any land use limitations or restrictions imposed pursuant to the No Further Remediation Letter;
 - C) Implement procedures for the Federal Landholding Entities to periodically advise the Agency of continued compliance with all maintenance and inspection requirements set forth in the LUC MOA;

- D) Implement procedures for the Federal Landholding Entities to notify the Agency of any planned or emergency changes in land use that may adversely impact land use limitations or restrictions imposed pursuant to the No Further Remediation Letter;
 - E) Notify the Agency at least 60 days in advance of a conveyance by deed or fee simple title, by the Federal Landholding Entities, of the site or sites subject to the No Further Remediation Letter, to any entity that will not remain or become a Federal Landholding Entity, and provide the Agency with information about how the Federal Landholding Entities will ensure the No Further Remediation Letter is recorded on the chain of title upon transfer of the property; and
 - F) Attach to the LUC MOA a copy of the No Further Remediation Letter for each site subject to the LUC MOA.
- 2) To perfect a No Further Remediation letter containing no restriction(s) on future land use, the Federal Landholding Entity must submit the letter to the Office of the Recorder or the Registrar of Titles of the county in which the site is located within 45 days after receipt of the letter. The letter must be filed in accordance with Illinois law so it forms a permanent part of the chain of title. The Federal Landholding Entity must obtain and submit to the Agency, within 30 days after recording, a copy of the letter demonstrating that the recording requirements have been satisfied.
 - 3) Failure to comply with the requirements of this subsection (d) and the LUC MOA may result in voidance of the No Further Remediation Letter as well as any other penalties that may be available.
- e) At no time must any site for which a land use limitation has been imposed as a result of corrective action under this Part be used in a manner inconsistent with the land use limitation set forth in the No Further Remediation Letter. The land use limitation specified in the No Further Remediation Letter may be revised only by the perfecting of a subsequent No Further Remediation Letter, issued pursuant to Title XVII of the Act and regulations thereunder, following further investigation or remediation that demonstrates the attainment of objectives appropriate for the new land use.

Section 734.720 Voidance of a No Further Remediation Letter

- a) The No Further Remediation Letter must be voidable if site activities are not carried out in full compliance with the provisions of this Part, and 35 Ill. Adm. Code 742 where applicable, or the remediation objectives upon which the issuance of the No Further Remediation Letter was based. Specific acts or

omissions that may result in avoidance of the No Further Remediation Letter include, but not be limited to:

- 1) Any violations of institutional controls or land use restrictions, if applicable;
- 2) The failure of the owner or operator or any subsequent transferee to operate and maintain preventive, engineering, and institutional controls;
- 3) Obtaining the No Further Remediation Letter by fraud or misrepresentation;
- 4) Subsequent discovery of indicator contaminants related to the occurrence upon which the No Further Remediation Letter was based that:
 - A) were not identified as part of the investigative or remedial activities upon which the issuance of the No Further Remediation Letter was based;
 - B) results in the failure to meet the remediation objectives established for the site; and
 - C) pose a threat to human health or the environment;
- 5) Upon the lapse of the 45 day period for recording the No Further Remediation Letter, the failure to record and thereby perfect the No Further Remediation Letter in a timely manner;
- 6) The disturbance or removal of contamination left in place under an approved plan;
- 7) The failure to comply with the requirements of Section 734.715(c) of this Part and the Memorandum of Agreement entered in accordance with Section 734.715(c) of this Part for a site that is located in a highway authority right-of-way;
- 8) The failure to comply with the requirements of Section 734.715(d) of this Part and the LUC MOA entered in accordance with Section 734.715(d) of this Part for a site located on Federally Owned Property for which the Federal Landholding Entity does not have the authority under federal law to record institutional controls on the chain of title;
- 9) The failure to comply with the requirements of Section 734.715(d) of this Part or the failure to record a No Further Remediation Letter perfected in accordance with Section 734.715(d) of this Part within 45 days following the transfer of the Federally Owned Property subject to the No Further

Remediation Letter to any entity that will not remain or become a Federal Landholding Entity; or

- 10) The failure to comply with the notice or confirmation requirements of 35 Ill. Adm. Code 742.1015(b)(5) and (c).
- b) If the Agency seeks to void a No Further Remediation Letter, it must provide a Notice of Voidance to the current title holder of the site and the owner or operator at his or her last known address.
 - 1) The Notice of Voidance must specify the cause for the voidance and describe the facts in support of the cause.
 - 2) The Agency must mail Notices of Voidance by registered or certified mail, date stamped with return receipt requested.
- c) Within 35 days after receipt of the Notice of Voidance, the current title holder and owner or operator of the site at the time the No Further Remediation Letter was issued may appeal the Agency's decision to the Board in the manner provided for the review of permit decisions in Section 40 of the Act.
- d) If the Board fails to take final action within 120 days, unless such time period is waived by the petitioner, the petition must be deemed denied and the petitioner must be entitled to an appellate court order pursuant to subsection (d) of Section 41 of the Act. The Agency must have the burden of proof in such action.
 - 1) If the Agency's action is appealed, the action must not become effective until the appeal process has been exhausted and a final decision is reached by the Board or courts.
 - A) Upon receiving a notice of appeal, the Agency must file a Notice of lis pendens with the Office of the Recorder or the Registrar of Titles for the county in which the site is located. The notice must be filed in accordance with Illinois law so that it becomes a part of the chain of title for the site.
 - B) If the Agency's action is not upheld on appeal, the Notice of lis pendens must be removed in accordance with Illinois law within 45 days after receipt of the final decision of the Board or the courts.
 - 2) If the Agency's action is not appealed or is upheld on appeal, the Agency must submit the Notice of Voidance to the Office of the Recorder or the Registrar of Titles for the county in which the site is located. The Notice must be filed in accordance with Illinois law so that it forms a permanent part of the chain of title for the site.

SUBPART H: EXPEDITED UNIT RATES & MAXIMUM PAYMENT AMOUNTS UNIT RATES

Section 734.800 Applicability

- a) a) This Subpart H provides the Expedited Unit Rates and Maximum Unit Rates that can be paid from the Fund for the products and services necessary to comply with this Part and provides guidance for determining the Quantity of products and services that are considered to be reasonable for purposes of reimbursement from the Fund. It also provides the method for determining the Extended Costs per product or service that are reasonable for purposes of reimbursement from the Fund.

In this Subpart, products and services that may typically be necessary in order to comply with this Part are grouped into three categories. The first of these is Field Products and Services, which typically includes, but are not limited to, products and services that may be necessary during activities such as, but not limited to, free product removal, drilling, probing, excavation, engineered barrier installation, etc. Expedited Unit Rates for Field Products and Services are covered in Sections 734.810 through 734.835 and Appendix E. The second category is Analytical & Testing Products & Services. These products and services include chemical, biological, geo-technical and other testing and analytical services. Expedited Unit Rates for Analytical & Testing Products & Services are covered in Section 734.840 and Appendix E. The third category is Professional Consulting Products & Services. These are products and services that are necessary to design, oversee, analyze, manage and document investigative and remedial activities during a corrective action project, as well as the professional consulting services necessary to perform all Agency required, planning, budgeting, reporting, correspondence, etc. Expedited Unit Rates for Professional Consulting Products and Services are covered in Section 734.845 and Appendix E. Hereinafter, Field Products and Services, Analytical & Testing Products and Services and Professional Consulting Products & Services are collectively referred to as Standard Products & Services.

This Subpart also groups work activities required to be conducted in order to comply with this part into the Standardized Tasks set forth in Appendix D (hereinafter referred to as Task(s)).

Appendix E, Schedule of Standard Products & Services, sets forth a list of standardized Products & Services that are commonly used in relation to various Tasks conducted in order to comply with this Part. Also provided in Appendix E are the Agency-approved Billing Methods, Units of Measure and Expedited Unit Rates for each Standard Product or Service listed.

Section 734.805 General

- a) When seeking reimbursement from the Fund, owners or operators must utilize one or more of the Standard Products and Services listed in Appendix E. All budget proposals and claims for reimbursement shall identify the Appendix D Task(s) being performed as well as the applicable Standard Product(s) or Service(s) and their associated Billing Method and Units of Measure as provided in Appendix E.

- i.) An owner or operator that incurs, or expects to incur, a unit rate for a Standard Product or Service in excess of any of the Expedited Unit Rates provided in Appendix E, may seek to recover costs in excess of the Expedited Unit Rate pursuant to the provisions of either Section 734.855 or 734.860 of this Subpart H.
- ii.) An owner or operator may obtain, on a site-specific basis, an Expedited Unit Rate for the cost of a product or service not listed in Appendix E by demonstrating that the product or service is not covered by one or more of the Standard Products or Services listed in Appendix E, is reasonable and meets the requirements of Sections 734.625 and 734.630 of Subpart F. In making this demonstration the owner/operator may obtain three bids for services pursuant to Section 734.855.
- iii.) An owner or operator that incurs or anticipates incurring costs in excess of the Expedited Unit Rate may recover costs on a site-specific basis in excess of the Expedited Unit Rate by meeting the requirements of Section 734.862.

For purposes of reimbursement from the Fund, a proposed or claimed cost per unit of measure equal to or less than the Expedited Unit Rate provided in Appendix E, or unit rate otherwise approved pursuant to subparagraphs i.), ii.) or iii.) of this paragraph (a) shall be presumed to be reasonable.

b) An owner/operator seeking reimbursement from the Fund must demonstrate that the Quantity of Standard Products and Services, and products or services approved on a site-specific basis pursuant to subparagraph ii.) or iii.) of paragraph (a.) of this Subpart H (hereinafter collectively referred to as "Standard Products and Services"), are reasonable for the Task being performed and do not exceed the minimum requirements of the Act. In order to validate that the proposed/claimed Quantity of a Standard Product or Service is reasonable the owner or operator shall demonstrate the following:

- i.) For Tasks performed pursuant to Subpart B of this Part, and with the exception of those Tasks associated with free product removal performed pursuant to an approved plan, the owner or operator shall demonstrate that the Task performed is necessary to meet the minimum requirements of the Act, or is otherwise eligible for reimbursement from the Fund, and that the Quantity of Products and Services provided in relation to a particular Task does not exceed the quantity necessary to achieve compliance with the Act or perform the eligible service (i.e. preparation of reimbursement requests). In making a reasonableness determination as to the number of Professional Consulting Service hours that are appropriate for Tasks conducted pursuant to this

subparagraph, the Agency shall adhere to the guidance provided in Appendix F.

ii.) For Tasks associated with free product removal performed pursuant to 734.210 (g) or Tasks performed pursuant to Subpart C or D of this Part, an owner or operator must obtain prior Agency approval of a Work Plan and Budget. The approved Work Plan and Budget shall specify the Tasks that are required in order to meet the minimum requirements of the Act and the Quantity of each Product and Service required per Task. The Agency shall consider a Task to be necessary if the work activities associated with the Task are reasonably required in order to achieve or support achievement of compliance with the Act and shall consider the Quantity of a Product or Service to be reasonable if it is approved in the corresponding Work Plan and Budget. In making a determination as to the Quantity(s) of a claimed or proposed Product(s) and/or Service(s) that are reasonable for each of the required Tasks, the Agency shall adhere to the Quantity guidance provided in Sections 734.810 through 734.845 of this and Appendix F to this Subpart. A Quantity that is approved in a Budget or otherwise approved pursuant to the provisions of Section 734.810 through 734.845 or Appendix F shall be known as a Reasonable Quantity.

c) An Owner/Operator seeking reimbursement from the Fund must demonstrate that the Extended Costs of Standard Products and Services is reasonable. For purposes of determining whether the Extended Costs for a particular Standard Product or Service is reasonable the Agency shall multiply the Expedited Unit Rate or the rate that may have been approved pursuant to the provisions of 734.805 (a), whichever is higher, for the Standard Product(s) and/or Service(s) by the Reasonable Quantity approved in the Budget or claimed in the reimbursement request (provided that the number of units claimed in the reimbursement request does not exceed the remaining Reasonable Quantity balance). The product of the applicable Expedited Unit Rate or rate approved pursuant to 734.805 (a), multiplied by the remaining Reasonable Quantity shall be presumed to be a reasonable Extended Costs for purposes of reimbursement from the Fund.

~~three methods for determining the maximum amounts that can be paid from the Fund for eligible corrective action costs. All costs associated with conducting corrective action are grouped into the tasks set forth in Sections 734.810 through 734.850 of this Part. The first method for determining the maximum amount that can be paid for each task is to use the maximum amounts for each task set forth in those Sections, and Section 734.870. In some cases the maximum amounts are specific dollar amounts, and in other cases the maximum amounts are determined on a site specific basis.~~

~~As an alternative to using the amounts set forth in Sections 734.810 through 734.850 of this Part, the second method for determining the maximum~~

amounts that can be paid for one or more tasks is bidding in accordance with Section 734.855 of this Part. As stated in that Section, when bidding is used, if the lowest bid for a particular task is less than the amount set forth in Sections 734.810 through 734.850, the amount in Sections 734.810 through 734.850 of this Part may be used instead of the lowest bid. Finally, the third method for determining maximum amounts that can be paid from the Fund applies to unusual or extraordinary circumstances. The maximum amounts for such circumstances can be determined in accordance with Section 734.860 of this Part.

- ~~b) The costs listed under each task set forth in Sections 734.810 through 734.850 of this Part identify only some of the costs associated with each task. They are not intended as an exclusive list of all costs associated with each task for the purposes of payment from the Fund.~~
- ~~e) This Subpart H sets forth only the methods that can be used to determine the maximum amounts that can be paid from the Fund for eligible corrective action costs. Whether a particular cost is eligible for payment must be determined in accordance with Subpart F of this Part.~~

Section 734.810 UST Removal or Abandonment Services Costs

- a.) The Billing Methods, Units of Measure and Expedited Unit Rates for UST removal or abandonment services are set forth in Section 1.1 of Appendix E
- b.) The scope of services associated with UST removal or abandonment services for purposes of establishing Alternative Expedited Unit Rates pursuant to the provisions of Sections 734.855 and 734.860 are provided in Appendix F.
- c.) Guidance for determining the Reasonable Quantity of UST Removal or Abandonment Services that are required are provided in Appendix F.
- d.) Guidance outlining the level of professional oversight required for the Field services required in this Section is provided in Appendix F.

~~Payment for costs associated with UST removal or abandonment of each UST must not exceed the amounts set forth in this Section. Such costs must include, but not be limited to, those associated with the excavation, removal, disposal, and abandonment of UST systems.~~

<u>UST Volume</u>	<u>Maximum Total Amount per UST</u>
110 - 999 gallons	\$2,100.00
1,000 - 14,999 gallons	\$3,150.00
15,000 or more gallons	\$4,100.00

Section 734.815 Free Product or Groundwater Removal and Disposal Services

- a.) The Billing Methods, Units of Measure and Expedited Unit Rates for Free Product Removal and Groundwater Removal & Disposal Services are set forth in Section 1.2 of Appendix E.
- b.) The scope of services associated with Free Product Removal and Groundwater Removal & Disposal Services for purposes of establishing Alternative Expedited Unit Rates pursuant to the provisions of Sections 734.855 and 734.860 are provided in Appendix F. (The design, construction, operation, maintenance and closure of free product or groundwater removal or treatments systems is not covered in these services. The services necessary to design, construct, operate, maintain and close a free product or groundwater removal or treatments system is considered a Professional Consulting Service and reimbursement for those services is subject to Section 734.845 and Section III of Appendix E.)
- c.) Guidance for determining the Reasonable Quantity of Free Product Removal and Groundwater Removal & Disposal Services that are required are provided in Appendix F.

Guidance outlining the level of professional oversight required for the Field Services required in this Section is provided in Appendix F.

~~Payment for costs associated with the removal and disposal of free product or groundwater must not exceed the amounts set forth in this Section. Such costs must include, but not be limited to, those associated with the removal, transportation, and disposal of free product or groundwater, and the design, construction, installation, operation, maintenance, and closure of free product or groundwater removal systems.~~

- ~~a) Payment for costs associated with each round of free product or groundwater removal via hand bailing or a vacuum truck must not exceed a total of \$0.68 per gallon or \$200.00, whichever is greater.~~
- ~~b) Payment for costs associated with the removal of free product or groundwater via a method other than hand bailing or vacuum truck must be determined on a time and materials basis and must not exceed the amounts set forth in Section 734.850 of this Part. Such costs must include, but not be limited to, those associated with the design, construction, installation, operation, maintenance, and closure of free product and groundwater removal systems.~~

Section 734.820 Drilling, Well Installation, and Well Abandonment Services

- a.) The Billing Methods, Units of Measure and Expedited Unit Rates for Drilling, Well Installation and Well Abandonment Services are set forth in Section 1.3 of Appendix

E.

b.) The scope of services associated with Drilling, Well Installation and Well Abandonment Services for purposes of establishing Alternative Expedited Unit Rates pursuant to the provisions of Sections 734.855 and 734.860 are provided in Appendix F.

c.) Guidance for determining the Reasonable Quantity of Drilling, Well Installation and Well Abandonment Services that are required are provided in Appendix F.

d.) Guidance outlining the level of professional oversight required for the Field Services required in this Section is provided in Appendix F.

———— Payment for costs associated with drilling, well installation, and well abandonment must not exceed the amounts set forth in this Section.

———— a) ——— Payment for costs associated with each round of drilling must not exceed the following amounts. Such costs must include, but not be limited to, those associated with mobilization, drilling labor, decontamination, and drilling for the purposes of soil sampling or well installation.

<u>Type of Drilling</u>	<u>Maximum Total Amount</u>
———— Hollow stem auger	———— greater of \$23.00 per foot or \$1,500.00
———— Direct push platform	
— for sampling or other	— greater of \$18.00 per foot or \$1,200.00
— non injection purposes	
— for injection purposes	— greater of \$15.00 per foot or \$1,200.00

b) ——— Payment for costs associated with the installation of monitoring wells, excluding drilling, must not exceed the following amounts. Such costs must include, but not be limited to, those associated with well construction and development.

<u>Type of Borehole</u>	<u>Maximum Total Amount</u>
———— Hollow stem auger	———— \$16.50/foot (well length)
———— Direct push platform	———— \$12.50/foot (well length)

c) ——— Payment for costs associated with the installation of recovery wells, excluding drilling, must not exceed the following amounts. Such costs must include, but not be limited to, those associated with well construction and development.

<u>Well Diameter</u>	<u>Maximum Total Amount</u>
———— 4 or 6 inches	———— \$25.00/foot (well length)
———— 8 inches or greater	———— \$41.00/foot (well length)

d) ——— Payment for costs associated with the abandonment of monitoring wells must not exceed \$10.00 per foot of well length.

Section 734.825 Soil Removal and Disposal Services

- a.) The Billing Methods, Units of Measure and Expedited Unit Rates for Soil Removal & Disposal Services are set forth in Section 1.4 of Appendix E.
- b.) The scope of services associated with Soil Removal & Disposal Services for purposes of establishing Alternative Expedited Unit Rates pursuant to the provisions of Sections 734.855 and 734.860 are provided in Appendix F.
- c.) Guidance for determining the Reasonable Quantity of Soil Removal & Disposal Services that are required are provided in Appendix F.
- d.) Guidance outlining the level of professional oversight required for the Field Services required in this Section is provided in Appendix F.

~~Payment for costs associated with soil removal, transportation, and disposal must not exceed the amounts set forth in this Section. Such costs must include, but not be limited to, those associated with the removal, transportation, and disposal of contaminated soil exceeding the applicable remediation objectives or visibly contaminated fill removed pursuant to Section 734.210(f) of this Part, and the purchase, transportation, and placement of material used to backfill the resulting excavation.~~

- a) ~~Payment for costs associated with the removal, transportation, and disposal of contaminated soil exceeding the applicable remediation objectives, visibly contaminated fill removed pursuant to Section 734.210(f) of this Part, and concrete, asphalt, or paving overlying such contaminated soil or fill must not exceed a total of \$57.00 per cubic yard.~~
- 1) ~~Except as provided in subsection (a)(2) of this Section, the volume of soil removed and disposed must be determined by the following equation using the dimensions of the resulting excavation: (Excavation Length x Excavation Width x Excavation Depth) x 1.05. A conversion factor of 1.5 tons per cubic yard must be used to convert tons to cubic yards.~~
- 2) ~~The volume of soil removed from within four feet of the outside dimension of the UST and disposed of pursuant to Section 734.210(f) of this Part must be determined in accordance with Section 734. Appendix C of this Part.~~
- b) ~~Payment for costs associated with the purchase, transportation, and placement of material used to backfill the excavation resulting from the removal and disposal of soil must not exceed a total of \$20.00 per cubic yard.~~
- 1) ~~Except as provided in subsection (b)(2) of this Section, the volume of~~

backfill material must be determined by the following equation using the dimensions of the backfilled excavation: $(\text{Excavation Length} \times \text{Excavation Width} \times \text{Excavation Depth}) \times 1.05$. A conversion factor of 1.5 tons per cubic yard must be used to convert tons to cubic yards.

- 2) ~~The volume of backfill material used to replace soil removed from within four feet of the outside dimension of the UST and disposed of pursuant to Section 734.210(f) of this Part must be determined in accordance with Section 734.Appendix C of this Part.~~
- e) ~~Payment for costs associated with the removal and subsequent return of soil that does not exceed the applicable remediation objectives but whose removal is required in order to conduct corrective action must not exceed a total of \$6.50 per cubic yard. The volume of soil removed and returned must be determined by the following equation using the dimensions of the excavation resulting from the removal of the soil: $(\text{Excavation Length} \times \text{Excavation Width} \times \text{Excavation Depth})$. A conversion factor of 1.5 tons per cubic yard must be used to convert tons to cubic yards.~~

Section 734.830 Drum Disposal Services

- a.) The Billing Methods, Units of Measure and Expedited Unit Rates for Drum Disposal Services are set forth in Section 1.5 of Appendix E.
- b.) The scope of services associated with Soil Removal & Disposal Services for purposes of establishing Alternative Expedited Unit Rates pursuant to the provisions of Sections 734.855 and 734.860 are provided in Appendix F.
- c.) Guidance for determining the Reasonable Quantity of Drum Disposal Services that are required are provided in Appendix F.

Guidance outlining the level of professional oversight required for the Field Services required in this Section is provided in Appendix F.

~~Payment for costs associated with the purchase, transportation, and disposal of 55 gallon drums containing waste generated as a result of corrective action (e.g., boring cuttings, water bailed for well development or sampling, hand bailed free product) must not exceed the following amounts or a total of \$500.00, whichever is greater.~~

<u>Drum Contents</u>	<u>Maximum Total Amount per Drum</u>
Solid waste	\$250.00
Liquid waste	\$150.00

Section 734.835 Concrete and Asphalt Paving Services

- a.) The Billing Methods, Units of Measure and Expedited Unit Rates for Concrete and Asphalt Paving Services are set forth in Section 1.6 of Appendix E.
- b.) The scope of services associated with Concrete and Asphalt Paving Services for purposes of establishing Alternative Expedited Unit Rates pursuant to the provisions of Sections 734.855 and 734.860 are provided in Appendix F.
- c.) Guidance for determining the Reasonable Quantity of Concrete and Asphalt Paving Services that are required are provided in Appendix F.
- d.) Guidance outlining the level of professional oversight required for the Field Services required in this Section is provided in Appendix F.

~~Section 734.835 — Sample Handling and Analysis~~

~~Payment for costs associated with sample handling and analysis must not exceed the amounts set forth in Section 734. Appendix D of this Part. Such costs must include, but not be limited to, those associated with the transportation, delivery, preparation, and analysis of samples, and the reporting of sample results. For laboratory analyses not included in this Section, the Agency may determine reasonable maximum payment amounts on a site specific basis.~~

Section 734.840 Analytical & Testing Services

- a.) The Billing Methods, Units of Measure and Expedited Unit Rates for Analytical & Testing Services are set forth in Section 2 of Appendix E.
- b.) The scope of services associated with Analytical & Testing Services for purposes of establishing Alternative Expedited Unit Rates pursuant to the provisions of Sections 734.855 and 734.860 are provided in Appendix F.
- c.) Guidance for determining the Reasonable Quantity of Analytical & Testing Services that are required are provided in Appendix F.
- d.) Guidance outlining the level of professional oversight required for the Field Services required in this Section is provided in Appendix F.

~~Section 734.840 — Concrete, Asphalt, and Paving; Destruction or Dismantling and Reassembly of Above Grade Structures~~

- a.) ~~Payment for costs associated with concrete, asphalt, and paving installed as an engineered barrier, other than replacement concrete, asphalt, and paving, must not exceed the following amounts. Costs associated with the replacement of concrete, asphalt, and paving used as an engineered barrier are subject to the maximum amounts set forth in subsection (b) of this Section instead of this subsection (a).~~

<u>Depth of Material</u>	<u>Maximum Total Amount per Square Foot</u>
Asphalt and paving 2 inches	\$1.65
3 inches	\$1.86
4 inches	\$2.38
Concrete any depth	\$2.38

- b) ~~Payment for costs associated with the replacement of concrete, asphalt, and paving must not exceed the following amounts:~~

<u>Depth of Material</u>	<u>Maximum Total Amount per Square Foot</u>
Asphalt and paving 2 inches	\$1.65
3 inches	\$1.86
4 inches	\$2.38
6 inches	\$3.08
Concrete 2 inches	\$2.45
3 inches	\$2.93
4 inches	\$3.41
5 inches	\$3.89
6 inches	\$4.36
8 inches	\$5.31

For depths other than those listed above, the Agency must determine reasonable maximum payment amounts on a site specific basis.

- e) ~~Payment for costs associated with the destruction or the dismantling and reassembly of above grade structures must not exceed the time and material amounts set forth in Section 734.850 of this Part. The total cost for the destruction or the dismantling and reassembly of above grade structures must not exceed \$10,000.00 per site.~~

Section 734.845 Professional Consulting Services

- a.) The Billing Methods, Units of Measure and Expedited Unit Rates for Professional Consulting Services are set forth in Section 3 of Appendix E.
- b.) The scope of services associated with Professional Consulting Services is provided in Appendix F. Alternative Expedited Unit Rates are not applicable to Professional Consulting Services listed in Section 3.1 of Appendix E.
- c.) Guidance for determining the Reasonable Quantity of Professional Consulting Services

that are required are provided in Appendix F.

From the effective date of this rule, the Agency shall track, on a Project-by-Project and Task-by-Task basis, the quantity of each Professional Consulting Product or Service item listed in Section 3.1, 3.2 and 3.3. of Appendix E that are proposed and approved. The purpose of this tracking shall be to develop a statistically reliable database for purposes of evaluating costs trends. Not later than the second anniversary date of the implementation of this rule, the Agency shall compile, and provide to the Board, a report outlining the average statewide cost for Professional Consulting Products & Services on an Item by Item and Task by Task basis. This report shall also provide the Board with the standard deviation in cost for each item for each task. Upon the Board's receipt of that report, the Agency may propose modifications to the Billing Methods and/or Expedited Unit Rates for the Professional Consulting Products and Services listed in Section III of Appendix E provided that such proposals are based upon statistically reliable means.

~~Section 734.845 — Professional Consulting Services~~

~~Payment for costs associated with professional consulting services must not exceed the amounts set forth in this Section. Such costs must include, but not be limited to, those associated with project planning and oversight; field work; field oversight; travel; per diem; mileage; transportation; vehicle charges; lodging; meals; and the preparation, review, certification, and submission of all plans, budgets, reports, applications for payment, and other documentation.~~

- ~~a) — Early Action and Free Product Removal. Payment of costs for professional consulting services associated with early action and free product removal activities conducted pursuant to Subpart B of this Part must not exceed the following amounts:~~
- ~~1) — Payment for costs associated with preparation for the abandonment or removal of USTs must not exceed a total of \$960.00.~~
 - ~~2) — Payment for costs associated with early action field work and field oversight must not exceed a total of \$390.00 per half day, plus travel costs in accordance with subsection (e) of this Section. The number of half days must not exceed the following:~~
 - ~~A) — If one or more USTs are removed, one half day for each leaking UST that is removed, not to exceed a total of ten half days, plus one half day for each 225 cubic yards, or fraction thereof, of visibly contaminated fill material removed and disposed of in accordance with Section 734.210(f) of this Part;~~
 - ~~B) — If one or more USTs remain in place, one half day for every four soil borings, or fraction thereof, drilled pursuant to Section 734.210(h)(2) of this Part; and~~
 - ~~C) — One half day if a UST line release is repaired.~~

- 3) ~~Payment for costs associated with the preparation and submission of 20-day and 45-day reports, including, but not limited to, field work not covered by subsection (a)(2) of this Section, must not exceed a total of \$4,800.00.~~
- 4) ~~Payment for costs associated with the preparation and submission of free product removal plans and the installation of free product removal systems must be determined on a time and materials basis and must not exceed the amounts set forth in Section 734.850 of this Part.~~
- 5) ~~Payment for costs associated with Stage 3 site investigations will be reimbursed pursuant to Section 734.850.~~
- 6) ~~Payment for costs associated with the preparation and submission of reports submitted pursuant to Section 734.210(h)(3) of this Part must not exceed a total of \$500.00.~~
- b) ~~Site Investigation. Payment of costs for professional consulting services associated with site investigation activities conducted pursuant to Subpart C of this Part must not exceed the following amounts:~~
- 1) ~~Payment for costs associated with Stage 1 site investigation preparation must not exceed a total of \$1,600.00.~~
- 2) ~~Payment for costs associated with Stage 1 field work and field oversight must not exceed a total of \$390.00 per half day, plus travel costs in accordance with subsection (e) of this Section. The number of half days must not exceed the following:~~
- ~~A) One half day for every four soil borings, or fraction thereof, drilled as part of the Stage 1 site investigation but not used for the installation of monitoring wells. Borings in which monitoring wells are installed must be included in subsection (b)(2)(B) of this Section instead of this subsection (b)(2)(A); and~~
- ~~B) One half day for each monitoring well installed as part of the Stage 1 site investigation.~~
- 3) ~~Payment for costs associated with the preparation and submission of Stage 2 site investigation plans must not exceed a total of \$3,200.00.~~
- 4) ~~Payment for costs associated with Stage 2 field work and field oversight must not exceed a total of \$390.00 per half day, plus travel costs in accordance with subsection (e) of this Section. The number of half days must not exceed the following:~~

- A) ~~One half day for every four soil borings, or fraction thereof, drilled as part of the Stage 2 site investigation but not used for the installation of monitoring wells. Borings in which monitoring wells are installed must be included in subsection (b)(4)(B) of this Section instead of this subsection (b)(4)(A); and~~
- B) ~~One half day for each monitoring well installed as part of the Stage 2 site investigation.~~
- 5) ~~Payment for costs associated with the preparation and submission of Stage 3 site investigation plans must not exceed a total of \$3,200.00.~~
- 6) ~~Payment for costs associated with Stage 3 field work and field oversight must not exceed a total of \$390.00 per half day, plus travel costs in accordance with subsection (e) of this Section. The number of half days must not exceed the following:~~
- ~~_____~~
- A) ~~One half day for every four soil borings, or fraction thereof, drilled as part of the Stage 3 site investigation but not used for the installation of monitoring wells. Borings in which monitoring wells are installed must be included in subsection (b)(6)(B) of this Section instead of this subsection (b)(6)(A); and~~
- B) ~~One half day for each monitoring well installed as part of the Stage 3 site investigation.~~
- 7) ~~Payment for costs associated with well surveys conducted pursuant to Section 734.445(b) of this Part must not exceed a total of \$160.00. Payment for costs associated with well surveys conducted pursuant to Section 734.445(c) of this Part must be determined on a time and materials basis and must not exceed the amounts set forth in Section 734.850 of this Part.~~
- 8) ~~Payment for costs associated with the preparation and submission of site investigation completion reports must not exceed a total of \$1,600.00.~~
- e) ~~Corrective Action. Payment of costs for professional consulting services associated with corrective action activities conducted pursuant to Subpart C of this Part must not exceed the following amounts:~~
- 1) ~~For conventional technology, payment for costs associated with the preparation and submission of corrective action plans must not exceed a total of \$5,120.00. For alternative technologies, payment for costs must be determined on a time and materials basis and must not exceed the amounts set forth in Section 734.850 of this Part.~~

- 2) ~~Payment for costs associated with corrective action field work and field oversight must not exceed the following amounts:~~
- A) ~~For conventional technology, a total of \$390.00 per half day, not to exceed one half day for each 225 cubic yards, or fraction thereof, of soil removed and disposed, plus travel costs in accordance with subsection (e) of this Section.~~
- B) ~~For alternative technologies, payment for costs must be determined on a time and materials basis and must not exceed the amounts set forth in Section 734.850 of this Part.~~
- 3) ~~Payment for costs associated with Environmental Land Use Controls and Highway Authority Agreements used as institutional controls pursuant to 35 Ill. Adm. Code 742 must not exceed a total of \$800.00 per Environmental Land Use Control or Highway Authority Agreement.~~
- 4) ~~Payment for costs associated with the preparation and submission of corrective action completion reports must not exceed a total of \$5,120.00.~~
- d) ~~Development of Tier 2 and Tier 3 Remediation Objectives. Payment of costs for professional consulting services associated with the development of Tier 2 and Tier 3 remediation objectives in accordance with 35 Ill. Adm. Code 742 must not exceed the following amounts:~~
- 1) ~~Payment for costs associated with field work and field oversight for the development of remediation objectives must not exceed a total of \$390.00 per half day, plus travel costs in accordance with subsection (e) of this Section. The number of half days must not exceed the following:~~
- A) ~~One half day for every four soil borings, or fraction thereof, drilled solely for the purpose of developing remediation objectives. Borings in which monitoring wells are installed must be included in subsection (d)(1)(B) of this Section instead of this subsection (d)(1)(A); and~~
- B) ~~One half day for each monitoring well installed solely for the purpose of developing remediation objectives.~~
- 2) ~~Excluding costs set forth in subsection (d)(1) of this Section, payment for costs associated with the development of Tier 2 or Tier 3 remediation objectives must not exceed a total of \$800.00.~~
- e) ~~Payment for costs associated with travel, including, but not limited to, travel time, per diem, mileage, transportation, vehicle charges, lodging, and meals, must not~~

exceed the following amounts. ~~Costs for travel must be allowed only when specified elsewhere in this Part.~~

Distance to site (land miles)	Maximum total amount per calendar day
0 to 29	\$140.00
30 to 59	\$220.00
60 or more	\$300.00

~~Distances must be measured in ground miles and rounded to the nearest mile. If a consultant maintains more than one office, distance to the site must be measured from the consultant's office that is closest to the site.~~

- ~~f) If a plan must be amended due to unforeseen circumstances, costs associated with the amendment of the plan and its associated budget must not exceed a total of \$640.00.~~

Section 734.847 Mileage, Lodging & Per Diems

Lodging, Mileage and Per Diem expenses shall be permitted for all reasonable overnight stays for Professional and Field Personnel performing Tasks that are eligible for reimbursement. The Lodging, Mileage and Per Diem rates are provided in Section 3.4 of Appendix E. For purposes of this Section overnight stays shall be considered reasonable if the Field Service Personnel or Consultant is required to work at a job site location more than sixty (60) miles from its office and on-site oversight activities plus travel time to the site from the consultant's office will require more than eight (8) hours per work day. Distances must be measured in ground miles and rounded to the nearest mile. If a consultant or contractor maintains more than one office, distance to the site must be measured from the closest office that is normally capable of providing the required personnel.

Section 734.850 Field Services-Payment on Time and Materials Basis

For any Field Product or Service that has a time and materials Bill Method prescribed in Sections 734.810 through 734.835, or any Field Product or Service that is not otherwise listed in Section 734.810 through 734.835, the owner or operator will be required to document its costs on time and materials basis utilizing the Products & Services listed in Section 1.7 of Appendix E.

Payment on Time and Materials Basis

~~This Section sets forth the maximum amounts that may be paid when payment is allowed on a time and materials basis.~~

- ~~a) Payment for costs associated with activities that have a maximum payment amount set forth in other sections of this Subpart H (e.g. sample handling and analysis, drilling, well installation and abandonment, drum disposal, or consulting~~

fees for plans, field work, field oversight, and reports) must not exceed the amounts set forth in those Sections, unless payment is made pursuant to Section 734.860 of this Part.

- b) ~~Maximum payments amounts for costs associated with activities that do not have a maximum payment amount set forth in other sections of this Subpart H must be determined by the Agency on a site specific basis, provided, however, that personnel costs must not exceed the amounts set forth in Section 734. Appendix E of this Part. Personnel costs must be based upon the work being performed, regardless of the title of the person performing the work. Owners and operators seeking payment must demonstrate to the Agency that the amounts sought are reasonable.~~

BOARD NOTE: Alternative technology costs in excess of the costs of conventional technology are ineligible for payment from the Fund. See Sections 734.340(b) and 734.630(z) of this Part.

Section 734.855 Competitive Bidding

As an alternative to the Expedited Unit Rates set forth in Sections 734.810 through 734.840 of this Subpart H, one or more Expedited Unit Rates may be determined on a site-by-site basis via bidding in accordance with this Section. Each bid must cover all costs included in the Expedited Unit Rate that the bid is replacing and be consistent with the Scope of Work provided for the applicable Product or Service in Appendix F of this Subpart H. The bids shall also utilize the same Billing Method and Unit of Measure as provided in Appendix F.

- a) A minimum of three written bids must be obtained. The bids must be based upon the same scope of work and must remain valid for a period of time that will allow the owner or operator to accept them upon the Agency's approval of the associated budget. The bids must be formatted to correspond with the Tasks listed in the Standard Task List set forth in Appendix D. Bids must be obtained only from persons qualified and able to perform the work being bid. Bids must not be obtained from persons in which the owner or operator, or the owner's or operator's primary contractor, has a financial interest.
- b) The bids must be summarized on forms prescribed and provided by the Agency. The bid summary form, along with copies of the bid requests and the bids obtained, must be submitted to the Agency in the associated budget. If more than the minimum three bids are obtained, summaries and copies of all bids must be submitted to the Agency.
- c) The Expedited Unit Rate for the work bid must be the amount of the lowest Expedited Unit Rate bid, unless the lowest bid is less than the Expedited Unit Rate set forth in Appendix E of this Subpart H in which case the Expedited Unit Rate set forth in Appendix E of this Subpart H must be allowed. The owner or operator is not required to use the lowest bidder to perform the work, but instead may use another person qualified and able to perform the work, including, but not limited to, a person in which the owner or operator, or the owner's or operator's primary consultant, has a direct or indirect financial interest. However, regardless of who performs the work, the Expedited Unit Rate will remain the amount of the lowest Expedited Unit Rate bid or the Expedited Unit Rate published in Appendix E, whichever is greater.

- d.) The lowest bid obtained via competitive bidding shall be known as the Bid Unit Rate.
- e.) This Section is not applicable to the Professional Consulting Services listed in Section 3.1 of Appendix E

~~As an alternative to the maximum payment amounts set forth in this Subpart H, one or more maximum payment amounts may be determined via bidding in accordance with this Section. Each bid must cover all costs included in the maximum payment amount that the bid is replacing.~~

- a) ~~A minimum of three written bids must be obtained. The bids must be based upon the same scope of work and must remain valid for a period of time that will allow the owner or operator to accept them upon the Agency's approval of the associated budget. Bids must be obtained only from persons qualified and able to perform the work being bid. Bids must not be obtained from persons in which the owner or operator, or the owner's or operator's primary contractor, has a financial interest.~~
- b) ~~The bids must be summarized on forms prescribed and provided by the Agency. The bid summary form, along with copies of the bid requests and the bids obtained, must be submitted to the Agency in the associated budget. If more than the minimum three bids are obtained, summaries and copies of all bids must be submitted to the Agency.~~
- e) ~~The maximum payment amount for the work bid must be the amount of the lowest bid, unless the lowest bid is less than the maximum payment amount set forth in this Subpart H in which case the maximum payment amount set forth in this Subpart H must be allowed. The owner or operator is not required to use the lowest bidder to perform the work, but instead may use another person qualified and able to perform the work, including, but not limited to, a person in which the owner or operator, or the owner's or operator's primary consultant, has a direct or indirect financial interest. However, regardless of who performs the work, the maximum payment amount will remain the amount of the lowest bid.~~

Section 734.860 Cost Justification

If an owner or operator incurs or anticipates it will incur eligible costs that exceed the Expedited Unit Rates set forth in Appendix E, for the Products or Services listed in Sections 734.810 through 734.840, the Agency may determine that the proposed/incurred rate is justified for purposes of reimbursement by the owner or operator making the demonstrations required in this Section. Owners and operators seeking to have the Agency approve one or more unit rates pursuant to this Section must:

- a.) For Products and/or Services listed in Appendix E, the owner or operator must demonstrate to the Agency that the cost of the Product or Service for which they are seeking a determination are eligible for payment from the Fund, exceeds the Expedited Unit Rate(s) set forth in Appendix E, are unavoidable, are reasonable, are necessary in order to satisfy the requirements of the Act or this Part, are not the result of unusual or extraordinary circumstances and do not exceed the Maximum Unit Rate for the Product

or Service. Examples of circumstances that may warrant Cost Justification include, but are not limited to, an inability to obtain a minimum of three bids pursuant to Section 734.855 of this Part due to a limited number of persons providing the Product or Service needed, Agency required deviations in the Scope of Work from that provided for the applicable Product or Service in Appendix F.

b.) For Products and/or Services not listed in Appendix E, the owner or operator must demonstrate that the Product or Service is not listed covered by one or more of the Products or Services listed in Appendix E, the price is reasonable, the product or service was/is necessary to meet the minimum requirements of the Act or this Part and does not exceed the minimum requirements of this Part.

d.) A unit rate approved pursuant to this Section shall be known as a "Justified Unit Rate".

~~Section 734.860 Unusual or Extraordinary Circumstances~~

~~If, as a result of unusual or extraordinary circumstances, an owner or operator incurs or will incur eligible costs that exceed the maximum payment amounts set forth in this Subpart H, the Agency may determine maximum payment amounts for the costs on a site specific basis. Owners and operators seeking to have the Agency determine maximum payments amounts pursuant to this Section must demonstrate to the Agency that the costs for which they are seeking a determination are eligible for payment from the Fund, exceed the maximum payment amounts set forth in this Subpart H, are the result of unusual or extraordinary circumstances, are unavoidable, are reasonable, and are necessary in order to satisfy the requirements of this Part. Examples of unusual or extraordinary circumstances may include, but not be limited to, an inability to obtain a minimum of three bids pursuant to Section 734.855 of this Part due to a limited number of persons providing the service needed.~~

734.862 Unusual or Extraordinary Circumstances

If, as a result of unusual or extraordinary circumstances, an owner or operator incurs or anticipates it will incur eligible costs that exceed the Expedited Unit Rate set forth in this Subpart H, the Agency may allow a unit price higher than the Expedited Unit Rate and the Maximum Unit Rate by the owner or operator demonstrating on a site-specific basis that the cost of the Product or Service is either not covered in Appendix E or that the costs was/is higher than the Expedited Unit Rate provided in Appendix E and that the costs are/will be incurred due to extra-ordinary circumstances, are unavoidable, are reasonable, and are necessary in order to satisfy the requirements of this Part. Unit prices for Products and/or Services approved pursuant to this Section shall be known as an Extraordinary Unit Price.

Section 734.865 Handling Charges

Payment of handling charges must not exceed the amounts set forth in Section 734.635 of this Part.

Section 734.870 Increase in Expedited Unit Rates

The Expedited Unit Rates set forth in this Subpart H must be adjusted not less than every year by the Agency first conducting a statistically significant analysis of the costs of Products and Services proposed

by owners or operators in Budgets and Work Plans. The Agency must include in this analysis the costs of Products and Services proposed which did not conform to the Agency-approved Schedule of Standard Products & Services but were approved pursuant to either Section 734.855 (Bid Unit Rates) or 734.860 (Justified Unit Rates) of this Subpart and were classified as being indicative of a statistically significant trend concerning the normal and customary performance of the Task being proposed. The statistical analysis shall be designed to identify Expedited Unit Rates published in Appendix E that do not accurately reflect customary and accepted market prices as well as new Products and/or Services (not listed in Appendix E) being utilized in a statistically significant number of instances. The Agency must submit a report to the Board on whether the Expedited Unit Rates for Standard Products and Services are consistent with the prices analyzed in the statistical analysis. The report must identify Expedited Unit Rates that are not consistent with the statistical analysis and suggest changes needed to make the Expedited Unit Rates consistent with customary and accepted market prices. Concurrently with the Submission of the above described report the Agency shall submit to the Board a report outlining the Extraordinary Unit Rates approved for the preceding twelve month period..

- a) The Agency must post the latest approved Schedule of Standard Products and Services on its website no later than the date it becomes effective.
- b) Adjusted Expedited Unit Rates must be applied as follows:
- 1) For costs approved by the Agency in writing prior to the date the Products or Services were provided, the applicable Expedited Unit Rate(s) must be the amounts in effect on the date the Agency received the budget in which the Products or Services were proposed. Once the Agency approves a Product or Service, the applicable Expedited Unit Rate or Alternative Expedited Unit Rate for the Product or Service must not be increased (e.g. by proposing the cost in a subsequent budget).
 - 2) For Products or Services not approved by the Agency in writing prior to the date the costs are incurred, including, but not limited to, Products or Services providing during the Early Action Phase, the applicable Expedited Unit Rate must be the amounts in effect on the date the costs were incurred.
- 3) Owners and operators must have the burden of requesting the appropriate adjusted Expedited Unit Rate in budgets and applications for payment.

----- Increase in Maximum Payment Amounts

The maximum payment amounts set forth in this Subpart H must be adjusted annually by an inflation factor determined by the annual Implicit Price Deflator for Gross National Product as published by the U.S. Department of Commerce in its Survey of Current Business.

- a) The inflation factor must be calculated each year by dividing the latest published annual Implicit Price Deflator for Gross National Product by the annual Implicit Price Deflator for Gross National Product for the previous year. The inflation factor must be rounded to the nearest 1/100th. In no case must the inflation factor be more than five percent in a single year.
- b) Adjusted maximum payment amounts must become effective on July 1 of each year and must remain in effect through June 30 of the following year. The first

~~adjustment must be made on July 1, 2006, by multiplying the maximum payment amounts set forth in this Subpart H by the applicable inflation factor. Subsequent adjustments must be made by multiplying the latest adjusted maximum payment amounts by the latest inflation factor.~~

~~e) The Agency must post the inflation factors on its website no later than the date they become effective. The inflation factors must remain posted on the website in subsequent years to aid in the calculation of adjusted maximum payment amounts.~~

~~d) Adjusted maximum payment amounts must be applied as follows:~~

~~1) For costs approved by the Agency in writing prior to the date the costs are incurred, the applicable maximum payments amounts must be the amounts in effect on the date the Agency received the budget in which the costs were proposed. Once the Agency approves a cost, the applicable maximum payment amount for the cost must not be increased (e.g., by proposing the cost in a subsequent budget).~~

~~2) For costs not approved by the Agency in writing prior to the date the costs are incurred, including, but not limited to, early action costs, the applicable maximum payments amounts must be the amounts in effect on the date the costs were incurred.~~

~~3) Owners and operators must have the burden of requesting the appropriate adjusted maximum payment amounts in budgets and applications for payment.~~

Section 734.875 Agency Review of Standardized Tasks ~~Payment~~ Amounts

No less than every two years the Agency must review the Standard Task List set forth in this Subpart H and submit a report to the Board on whether the Tasks are fully consistent with the tasks that are being approved to meet the goals of approved work plans. The report must identify both Standard Task List tasks that are not being used on a statistically significant number of sites, and tasks which are not in the Standard Task List but are being approved on a site-by-site basis in a statistically significant number of instances. Based on such data, the Agency must recommend existing Tasks for deletion from the Standard Task List and new tasks for inclusion in the Standard Task List, provided however, that each new task must have a clear and distinguishable relationship to a specific provision of the regulations and must accommodate statistically significant reporting of the cost of Products and Services required to complete the Task.

~~No less than every three years the Agency must review the amounts set forth in this Subpart H and submit a report to the Board on whether the amounts are consistent with the prevailing market rates. The report must identify amounts that are not consistent with the prevailing market rates and suggest changes needed to make the amounts consistent with the prevailing market rates~~

Section 734.APPENDIX A Indicator Contaminants

TANK CONTENTS

GASOLINE

leaded(1), unleaded, premium and gasohol

INDICATOR CONTAMINANTS

benzene
ethylbenzene
toluene
xylene
Methyl tertiary butyl ether (MTBE)

MIDDLE DISTILLATE AND HEAVY ENDS

aviation turbine fuels(1)

jet fuels

diesel fuels

gas turbine fuel oils

heating fuel oils

illuminating oils

Kerosene

Lubricants

liquid asphalt and dust laying oils

cable oils

crude oil, crude oil fractions

petroleum feedstocks

petroleum fractions

heavy oils

transformer oils(2)

hydraulic fluids(3)

petroleum spirits(4)

mineral spirits(4), Stoddard solvents(4)

high-flash aromatic naphthas(4)

VM&P naphthas(4)

moderately volatile hydrocarbon solvents(4)

petroleum extender oils(4)

benzene
ethylbenzene
toluene
xylene
acenaphthene
anthracene
benzo(a)anthracene
benzo(a)pyrene
benzo(b)fluoranthene
benzo(k)fluoranthene
chrysene
dibenzo(a,h)anthracene
fluoranthene
fluorene
indeno(1,2,3-c,d)pyrene
naphthalene
pyrene
Acenaphthylene
Benzo(g,h,i)perylene
Phenanthrene

USED OIL

Screening sample(5)

- (1) lead is also an indicator contaminant
- (2) the polychlorinated biphenyl parameters listed in Appendix B are also indicator contaminants
- (3) barium is also an indicator contaminant

- (4) the volatile, base/neutral and polynuclear aromatic parameters listed in Appendix B are also indicator contaminants
- (5) used oil indicator contaminants must be based on the results of a used oil soil sample analysis - refer to Section 734.405(g) of this Part

Section 734.APPENDIX B Additional Parameters

Volatiles

1. Benzene
2. Bromoform
3. Carbon tetrachloride
4. Chlorobenzene
5. Chloroform
6. Dichlorobromomethane
7. 1,2-Dichloroethane
8. 1,1-Dichloroethane
9. cis-1,2-Dichloroethane
10. Trans-1,2-Dichloroethylene
11. Dichloromethane (Methylene chloride)
12. 1,2-Dichloropropane
13. 1,3-Dichloropropylene (cis + trans)
14. Ethylbenzene
15. Styrene
16. Tetrachloroethylene
17. Toluene
18. 1,1,1-Trichloroethane
19. 1,1,2-Trichloroethane
20. Trichloroethylene
21. Vinyl chloride
22. Xylenes (total)

Base/Neutrals

1. Bis(2-chloroethyl)ether
2. Bis(2-ethylhexyl)phthalate
3. 1,2-Dichlorobenzene
4. 1,4-Dichlorobenzene
5. Hexachlorobenzene
6. Hexachlorocyclopentadiene
7. *n*-Nitrosodi-*n*-propylamine
8. *n*-Nitrosodiphenylamine

Section 734.APPENDIX D Sample Handling and Analysis Standard Task List**EARLY ACTION**

<u>Major Task</u>	<u>Detailed Task</u>
<u>210(a)</u>	<u>Complete 24hr Response Actions & IEMA Reporting</u>
	<u>734.210(a)(1) Report Release to IEMA</u>
	<u>734.210(a)(2) Take Immediate action to prevent further release</u>
	<u>734.210(a)(3) Identify and mitigate fire, explosion, & vapor hazards</u>
<u>210(b)</u>	<u>Conduct 20day Abatement Measures</u>
	<u>734.210(b)(1) Remove Petroleum to prevent further release</u>
	<u>734.210(b)(2) Visually inspect Release and prevent further migration</u>
	<u>734.210(b)(3) Monitor/mitigate fire, explosion, & vapor hazards</u>
	<u>734.210(b)(4) Remedy hazards posed by excavated or exposed soils</u>
	<u>734.210(b)(5) Measure for the presence of a release</u>
	<u>734.210(b)(6) Determine the possible presence of free product</u>
<u>210(c)</u>	<u>Prepare & Submit 20-day Report</u>
<u>210(d)</u>	<u>Prepare 45-day report</u>
<u>210(e)</u>	<u>Submit 45-Day Report</u>
<u>210(f)</u>	<u>Conduct Applicable Early Action Field Activities</u>
	<u>734.210(f)1 Tank Removal</u>
	<u>734.210(f)2 Tank Abandonment</u>
	<u>734.210(f)3 EA ETD&B</u>
	<u>734.210(f)4 Ex-situ Treatment</u>
<u>210(g)</u>	<u>Optional Filing of EA Extension</u>
<u>210(h)(1,2)</u>	<u>Determine Areas and locations of soil contamination</u>
	<u>734.210(h)(1) Collect and analyze soil samples for each tank removed</u>
	<u>734.210(h)(2) Collect and analyze soil samples for each tank remaining</u>
<u>210(h)(3)</u>	<u>Prepare & Submit report for EA Closure, if Tier 1 Objectives are met</u>
<u>215(a)(1)</u>	<u>Perform 45 day Free Product Removal</u>
<u>215(a)(4)</u>	<u>Prepare & Submit 45 day Free Product Removal Report</u>
<u>220</u>	<u>Prepare & Submit Application for Payment of Early Action Costs</u>
<u>625(a)(15)</u>	<u>Prepare & Submit EDD Application</u>

Post 45day FREE PRODUCT REMOVAL

<u>Major Task</u>	<u>Detailed Task</u>
<u>215(c)</u>	<u>Prepare & Submit Post 45 day Free Product Removal Plan</u>
<u>350</u>	<u>Negotiate Off-Site Access</u>
<u>215(d)</u>	<u>Prepare & Submit Post 45 day Free Product Removal Budget</u>
<u>215(e)</u>	<u>Perform Free Product Removal</u>
<u>215(g)1</u>	<u>Prepare & Submit Plan Amendments as Necessary</u>
<u>215(g)2</u>	<u>Prepare & Submit Budget Amendments as Necessary</u>

- 605(h) Prepare & Submit Application for Payment
605(b)(3) Prepare & Submit EDD Application

Stage 1

- | <u>Major Task</u> | <u>Detailed Task</u> |
|-------------------|---|
| <u>315(b)</u> | <u>Prepare & Submit Work Plan (Stage 1)</u> |
| <u>310(b)</u> | <u>Prepare & Submit Budget (Stage 1)</u> |
| <u>315(a)(1)</u> | <u>Perform Site Soil Investigation (Stage 1)</u> |
| <u>315(a)(2)</u> | <u>Perform Site Groundwater Investigation (Stage 1)</u> |
| | <u>315(a)(2)(B) Install Monitoring Well(s)</u> |
| | <u>315(a)(2)(C) Collect Soil Sample(s)</u> |
| | <u>315(a)(2)(D) Sample Monitoring Wells</u> |
| | <u>315(a)(2)(E) Perform Hydraulic Conductivity Testing</u> |
| <u>315(a)(3)</u> | <u>Conduct Water Supply Well Survey</u> |
| <u>330</u> | <u>Prepare and Submit Completion Report (Stage 1)</u> |
| <u>605(h)</u> | <u>Prepare and Submit Application for Payment (Stage 1)</u> |
| <u>605(b)(3)</u> | <u>Prepare & Submit EDD Application</u> |

Stage 2

- | <u>Major Task</u> | <u>Detailed Task</u> |
|-------------------|--|
| <u>320(b)</u> | <u>Prepare & Submit Work Plan (Stage 2)</u> |
| <u>310(b)</u> | <u>Prepare & Submit Budget (Stage 2)</u> |
| <u>320(a)(1)</u> | <u>Perform Site Soil Investigation (Stage 2)</u> |
| <u>320(a)(2)</u> | <u>Perform Site Groundwater Investigation (Stage 2)</u> |
| | <u>320(a)(2) Advance Soil Borings & Collect Samples</u> |
| | <u>320(a)(2) Install & Sample Monitoring Well(s)</u> |
| <u>330</u> | <u>Prepare and Submit Completion Report (Stage 2)</u> |
| <u>310(d)1</u> | <u>Prepare & Submit Plan Amendments as Necessary (Stage 2)</u> |
| <u>310(d)2</u> | <u>Prepare & Submit Budget Amendments as Necessary (Stage 2)</u> |
| <u>605(h)</u> | <u>Prepare and Submit Application for Payment (Stage 1)</u> |
| <u>605(b)(3)</u> | <u>Prepare & Submit EDD Application</u> |

Stage 3

- | <u>Major Task</u> | <u>Detailed Task</u> |
|-------------------|---|
| <u>325(b)</u> | <u>Prepare & Submit Work Plan (Stage 3)</u> |
| <u>350</u> | <u>Negotiate Off-Site Access</u> |
| <u>310(b)</u> | <u>Prepare & Submit Budget (Stage 3)</u> |
| <u>325(a)(1)</u> | <u>Perform Off-Site Soil Investigation (Stage 3)</u> |
| <u>325(a)(2)</u> | <u>Perform Off-Site Groundwater Investigation (Stage 3)</u> |
| | <u>325(a)(2) Advance Soil Borings & Collect Samples</u> |

- 325(a)(2) Install & Sample Monitoring Well(s)
- 330 Prepare and Submit Completion Report (Stage 3)
- 310(d)1 Prepare & Submit Plan Amendments as Necessary (Stage 3)
- 310(d)2 Prepare & Submit Budget Amendments as Necessary (Stage 3)
- 605(h) Prepare and Submit Application for Payment (Stage2)
- 605(b)(3) Prepare & Submit EDD Application

CORRECTIVE ACTION**Soil Remediation**

- | <u>Major Task</u> | <u>Detailed Task</u> |
|-------------------|---|
| <u>335</u> | <u>Conventional</u> |
| | <u>335(a)</u> <u>Prepare & Submit Work Plan</u> |
| | <u>335(b)</u> <u>Prepare & Submit Budget</u> |
| | <u>335(c)</u> <u>Perform Corrective Action After Approval</u> |
| | <u>335(e)1</u> <u>Prepare & Submit Plan Amendments as Necessary</u> |
| | <u>335(e)2</u> <u>Prepare & Submit Budget Amendments as Necessary</u> |
| <u>340</u> | <u>Alternative</u> |
| | <u>340(a)</u> <u>Prepare & Submit Work Plan</u> |
| | <u>340(b)</u> <u>Prepare & Submit Budget</u> |
| | <u>340(c)</u> <u>Perform Corrective Action After Approval</u> |
| | <u>340(d)</u> <u>Agency Required Remote Monitoring</u> |
| | <u>335(e)1</u> <u>Prepare & Submit Plan Amendments as Necessary</u> |
| | <u>335(e)2</u> <u>Prepare & Submit Budget Amendments as Necessary</u> |
| <u>350</u> | <u>Negotiate Off-Site Access</u> |

Groundwater Remediation

- | <u>Major Task</u> | <u>Detailed Task</u> |
|-------------------|---|
| <u>335</u> | <u>Conventional</u> |
| | <u>335(a)</u> <u>Prepare & Submit Work Plan</u> |
| | <u>335(b)</u> <u>Prepare & Submit Budget</u> |
| | <u>335(c)</u> <u>Perform Corrective Action After Approval</u> |
| | <u>335(e)1</u> <u>Prepare & Submit Plan Amendments as Necessary</u> |
| | <u>335(e)2</u> <u>Prepare & Submit Budget Amendments as Necessary</u> |
| <u>340</u> | <u>Alternative</u> |
| | <u>340(a)</u> <u>Prepare & Submit Work Plan</u> |
| | <u>340(b)</u> <u>Prepare & Submit Budget</u> |
| | <u>340(c)</u> <u>Perform Corrective Action After Approval</u> |
| | <u>340(d)</u> <u>Agency Required Remote Monitoring</u> |
| | <u>335(e)1</u> <u>Prepare & Submit Plan Amendments as Necessary</u> |
| | <u>335(e)2</u> <u>Prepare & Submit Budget Amendments as Necessary</u> |

350 Negotiate Off-Site Access

Soil & Groundwater

Major Task Detailed Task

335

Conventional

335(a) Prepare & Submit Work Plan

335(b) Prepare & Submit Budget

335(c) Perform Corrective Action After Approval

335(e)1 Prepare & Submit Plan Amendments as Necessary

335(e)2 Prepare & Submit Budget Amendments as Necessary

340

Alternative

340(a) Prepare & Submit Work Plan

340(b) Prepare & Submit Budget

340(c) Perform Corrective Action After Approval

340(d) Agency Required Remote Monitoring

335(e)1 Prepare & Submit Plan Amendments as Necessary

335(e)2 Prepare & Submit Budget Amendments as Necessary

350

Negotiate Off-Site Access

Major Task Detailed Task

345(a) Prepare & Submit Corrective Action Completion Report

355(a) Prepare and Submit Status Report within 4 years

605(h) Prepare and Submit Application for Payment (Stage 3)

605(b)(3) Prepare & Submit EDD Application

Sample Handling and Analysis

	Max. Total Amount per Sample
<u>Chemical</u>	
BETX Soil with MTBE	\$85.00
BETX Water with MTBE	\$81.00
COD (Chemical Oxygen Demand)	\$30.00
Corrosivity	\$15.00
Flash Point or Ignitability Analysis EPA 1010	\$33.00
FOC (Fraction Organic Carbon)	\$38.00
Fat, Oil, & Grease (FOG)	\$60.00
LUST Pollutants Soil—analysis must include all volatile, base/neutral, polynuclear aromatic, and metal parameters listed in Section 734. Appendix B of this Part	\$693.00

Organic Carbon (ASTM D 2974 87)	\$33.00
Dissolved Oxygen (DO)	\$24.00
Paint Filter (Free Liquids)	\$14.00
PCB / Pesticides (combination)	\$222.00
PCBs	\$111.00
Pesticides	\$140.00
PH	\$14.00
Phenol	\$34.00
Polynuclear Aromatics PNA, or PAH SOIL	\$152.00
Polynuclear Aromatics PNA, or PAH WATER	\$152.00
Reactivity	\$68.00
SVOC—Soil (Semi-volatile Organic Compounds)	\$313.00
SVOC—Water (Semi-volatile Organic Compounds)	\$313.00
TKN (Total Kjeldahl) "nitrogen"	\$44.00
TOC (Total Organic Carbon) EPA 9060A	\$31.00
TPH (Total Petroleum Hydrocarbons)	\$122.00
VOC (Volatile Organic Compound) —Soil (Non-Aqueous)	\$175.00
VOC (Volatile Organic Compound) —Water	\$169.00
Geo-Technical	
Bulk Density ASTM D4292 / D2937	\$22.00
Ex-Situ Hydraulic Conductivity / Permeability	\$255.00
Moisture Content ASTM D2216-90 / D4643-87	\$12.00
Porosity	\$30.00
Rock Hydraulic Conductivity Ex-Situ	\$350.00
Sieve / Particle Size Analysis ASTM D422-63 / D1140-54	\$145.00
Soil Classification ASTM D2488-90 / D2487-90	\$68.00
Metals	
Arsenic TCLP Soil	\$16.00
Arsenic Total Soil	\$16.00
Arsenic Water	\$18.00
Barium TCLP Soil	\$10.00
Barium Total Soil	\$10.00
Barium Water	\$12.00
Cadmium TCLP Soil	\$16.00
Cadmium Total Soil	\$16.00
Cadmium Water	\$18.00
Chromium TCLP Soil	\$10.00
Chromium Total Soil	\$10.00
Chromium Water	\$12.00
Cyanide TCLP Soil	\$28.00
Cyanide Total Soil	\$34.00
Cyanide Water	\$34.00

Iron TCLP Soil	\$10.00
Iron Total Soil	\$10.00
Iron Water	\$12.00
Lead TCLP Soil	\$16.00
Lead Total Soil	\$16.00
Lead Water	\$18.00
Mercury TCLP Soil	\$19.00
Mercury Total Soil	\$10.00
Mercury Water	\$26.00
Selenium TCLP Soil	\$16.00
Selenium Total Soil	\$16.00
Selenium Water	\$15.00
Silver TCLP Soil	\$10.00
Silver Total Soil	\$10.00
Silver Water	\$12.00
Metals TCLP Soil (a combination of all RCRA metals)	\$103.00
Metals Total Soil (a combination of all RCRA metals)	\$94.00
Metals Water (a combination of all RCRA metals)	\$119.00
Soil preparation for Metals TCLP Soil (one fee per sample)	\$79.00
Soil preparation for Metals Total Soil (one fee per sample)	\$16.00
Water preparation for Metals Water (one fee per sample)	\$11.00
Other	
En Core® Sampler, purge and trap sampler, or equivalent sampling device	\$10.00
Sample Shipping (*maximum total amount for shipping all samples collected in a calendar day)	\$50.00*

Section 734.APPENDIX E Schedule of Standard Products & Services

<u>DESCRIPTION</u>	<u>BILLING METHOD</u>	<u>UNIT OF MEASURE</u>	<u>EXPEDITED UNIT RATE</u>
<u>I - FIELD PRODUCTS & SERVICES</u>			
<u>Section 1.1- UST Removal/Abandonment Products & Services (734.810)</u>			
<u>UST Removal 110-999 gallons</u>	<u>Unit Price</u>	<u>Each</u>	<u>2100.00</u>
<u>UST Removal 1,000-14,999 gallons</u>	<u>Unit Price</u>	<u>Each</u>	<u>3150.00</u>
<u>UST Removal 15,000+ gallons</u>	<u>Unit Price</u>	<u>Each</u>	<u>4100.00</u>
<u>UST Abandonment</u>	<u>Time & Materials</u>	<u>N/A</u>	<u>N/A</u>
<u>Section 1.2- Free Product & Groundwater Removal & Disposal Services (734.815)</u>			
<u>Free Product/Groundwater Removal & Disposal</u>	<u>Unit Price</u>	<u>Gallon</u>	<u>0.68</u>
<u>Section 1.3 Drilling, Well Installation and Well Abandonment Services (734.820)</u>			
<u>Hollow Stem Auguring for Sampling Purposes</u>	<u>Unit Price</u>	<u>Foot</u>	<u>23.00</u>
<u>Direct Push Advancement for Sampling Purposes</u>	<u>Unit Price</u>	<u>Foot</u>	<u>18.00</u>
<u>Well Placement in Hollow Stem Sampled Borehole</u>	<u>Unit Price</u>	<u>Foot</u>	<u>16.50</u>
<u>Well Placement in Probe Advanced/Sampled Borehole</u>	<u>Unit Price</u>	<u>Foot</u>	<u>12.50</u>
<u>Direct Push Injections</u>	<u>Unit Price</u>	<u>Foot</u>	<u>15.00</u>
<u>Well Installation exclusive of Drilling, 4-6 inch diameter</u>	<u>Unit Price</u>	<u>Foot</u>	<u>25.00</u>
<u>Well Installation exclusive of Drilling, 8+ inch diameter</u>	<u>Unit Price</u>	<u>Foot</u>	<u>41.00</u>
<u>Well Abandonment</u>	<u>Unit Price</u>	<u>Foot</u>	<u>10.00</u>
<u>Equipment and Crew Mobilization</u>	<u>Unit Price</u>	<u>Each</u>	<u>250.00</u>
<u>Section 1.4 Soil Removal & Disposal Services (734.825)</u>			
<u>Removal, Transportation & Disposal of Contaminated Soil</u>	<u>Unit Price</u>	<u>Cubic Yard</u>	<u>57.00</u>
<u>Purchase, Transportation & Placement of Backfill</u>	<u>Unit Price</u>	<u>Cubic Yard</u>	<u>20.00</u>
<u>Removal and Return of Clean Soil to Access Contaminated Soil</u>	<u>Unit Price</u>	<u>Cubic Yard</u>	<u>6.50</u>
<u>Section 1.5 Drum Disposal Services (7634.830)</u>			
<u>Solid Waste Drum Disposal</u>	<u>Unit Price</u>	<u>Drum</u>	<u>250.00</u>
<u>Liquid Waste Drum Disposal</u>	<u>Unit Price</u>	<u>Drum</u>	<u>150.00</u>
<u>Drum Disposal Minimum Billing</u>	<u>Lump Sum</u>	<u>Each</u>	<u>500.00</u>
<u>Section 1.6 Concrete, Asphalt and Paving Services (734.835)</u>			
<u>Asphalt and Paving as Engineered Barrier, 2 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>1.65</u>
<u>Asphalt and Paving as Engineered Barrier, 3 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>1.86</u>

<u>Asphalt and Paving as Engineered Barrier, 4 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>2.38</u>
<u>Concrete as Engineered Barrier, any depth</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>2.38</u>
<u>Replacement of Asphalt and Paving, 2 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>1.65</u>
<u>Replacement of Asphalt and Paving, 3 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>1.86</u>
<u>Replacement of Asphalt and Paving, 4 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>2.38</u>
<u>Replacement of Asphalt and Paving, 6 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>3.08</u>
<u>Replacement of Concrete, 2 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>2.45</u>
<u>Replacement of Concrete, 3 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>2.93</u>
<u>Replacement of Concrete, 4 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>3.41</u>
<u>Replacement of Concrete, 5 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>3.89</u>
<u>Replacement of Concrete, 6 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>4.36</u>
<u>Replacement of Concrete, 8 inches</u>	<u>Unit Price</u>	<u>Square Foot</u>	<u>5.31</u>
<u>Section 1.7 Field Services Performed on a Time and Materials Basis (734.850)</u>			
<u>Site Superintendent</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>80.00</u>
<u>Laborer</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>54.00</u>
<u>Operator</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>62.00</u>
<u>Fleet Supervisor</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>55.00</u>
<u>Driver I-A CDL</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>48.00</u>
<u>Driver II-A Oversize Loads</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>55.00</u>
<u>Drilling Foreman</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>50.00</u>
<u>Rig Hand</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>45.00</u>
<u>Visqueen 20X100 Roll</u>	<u>Time and Materials</u>	<u>FOOT</u>	<u>0.75</u>
<u>55 Gallon Drums</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>50.00</u>
<u>Absorbent Materials 25Lb/Bag</u>	<u>Time and Materials</u>	<u>BAG</u>	<u>15.00</u>
<u>PVC Gloves</u>	<u>Time and Materials</u>	<u>PAIR</u>	<u>3.50</u>
<u>Neoprene Gloves</u>	<u>Time and Materials</u>	<u>PAIR</u>	<u>5.00</u>
<u>Nitrile Gloves</u>	<u>Time and Materials</u>	<u>PAIR</u>	<u>0.50</u>
<u>Grade D Breathing Air</u>	<u>Time and Materials</u>	<u>BOTTLE</u>	<u>40.00</u>
<u>Sawzall Blades</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>2.95</u>
<u>OVA/HEPA Respirator Cartridges</u>	<u>Time and Materials</u>	<u>PAIR</u>	<u>16.50</u>
<u>Absorbent Socks Emergency Response</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>30.00</u>
<u>Orange Safety Fence (50' Roll)</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>85.00</u>
<u>Boot Covers</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>5.00</u>
<u>Per Diem</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>28.00</u>
<u>Absorbent Pads</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>1.05</u>
<u>Injection Sys Expendable Point</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>5.00</u>
<u>Chemical Oxidation Compound</u>	<u>Time and Materials</u>	<u>LB</u>	<u>12.00</u>
<u>Chem. Oxidation Comp. Type 2</u>	<u>Time and Materials</u>	<u>LB</u>	<u>4.00</u>
<u>Poly Tubing</u>	<u>Time and Materials</u>	<u>FT</u>	<u>0.25</u>
<u>Silicone Tubing</u>	<u>Time and Materials</u>	<u>FT</u>	<u>3.00</u>
<u>1-1/2" Inch Absorbent Sock</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>12.50</u>
<u>Shelby Tubes 3" x 30"</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>12.00</u>
<u>End Cap 3" Shelby Tubes</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>0.40</u>
<u>Skid Steer With Concrete Break</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>35.00</u>
<u>Skid Steer</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>15.00</u>
<u>Skid Steer W/ Drilling Attatch</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>35.00</u>

<u>Backhoe</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>200.00</u>
<u>Excavator</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>775.00</u>
<u>Air Compressor (Trailerred)</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>120.00</u>
<u>Dozer</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>435.00</u>
<u>Wheel Loader</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>445.00</u>
<u>Compost Spreader</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>100.00</u>
<u>Skid Steer With Sweeper</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>35.00</u>
<u>26 Gal. Speed Air Compressor</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>50.00</u>
<u>Concrete Saw (Walk Behind)</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>100.00</u>
<u>115 Volt Generator</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>50.00</u>
<u>2" Trash Pump</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>50.00</u>
<u>Power/Pressure Washer</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>75.00</u>
<u>Drilling Rig Pressure Washer</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>50.00</u>
<u>½" Hammer Drill</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>50.00</u>
<u>Laser Level</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>60.00</u>
<u>Builders Level</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>30.00</u>
<u>Eductor</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>20.00</u>
<u>500 Gal. Poly Tank</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>25.00</u>
<u>1000 Gal Poly Tank</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>35.00</u>
<u>1500 Gal. Poly Tank</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>45.00</u>
<u>Submersible Pump</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>15.00</u>
<u>Oxy/Acetylene Torch Outfit</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>40.00</u>
<u>Drum Vac.</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>60.00</u>
<u>Sawzall</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>30.00</u>
<u>Air Diaphragm Pump</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>60.00</u>
<u>Full Face Air Purifying Respir</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>25.00</u>
<u>Half Face Air Purifying Respir</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>20.00</u>
<u>Full Face Supplied Air Respira</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>45.00</u>
<u>Breathing Air Regulator</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>25.00</u>
<u>30 Min. SCBA</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>75.00</u>
<u>Lifting Cable</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>15.00</u>
<u>Combustible Gas Indicator</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>75.00</u>
<u>3" Trash Pump</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>75.00</u>
<u>Traffic Control Devices (Set)</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>40.00</u>
<u>17" X 19" Absorbent Pad</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>1.25</u>
<u>In-Situ Injection System</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>275.00</u>
<u>Tandem Dump</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>25.00</u>
<u>Tractor With Dump Trailer</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>32.50</u>
<u>Tractor With Lowboy Trailer</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>55.00</u>
<u>Service Truck With Tools</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>60.00</u>
<u>Remediation Utility Vehicle</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>60.00</u>
<u>Tanker Semi Truck</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>65.00</u>
<u>Cargo Trailer</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>75.00</u>
<u>Dovetail Trailer</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>50.00</u>
<u>5-Ton Utility Trailer</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>45.00</u>
<u>Soil Probing Unit</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>80.00</u>
<u>Drilling Rig Utility Trailer</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>45.00</u>
<u>Drum Hauler Box Truck</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>18.50</u>

<u>Drill Rig</u>	<u>Time and Materials</u>	<u>HOUR</u>	<u>80.00</u>
<u>ATV With Utility Bed</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>240.00</u>
<u>Free Product Removal System</u>	<u>Time and Materials</u>	<u>WEEK</u>	<u>250.00</u>
<u>Polycoated Tyvek</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>27.50</u>
<u>II- ANALYTICAL & TESTING PRODUCTS & SERVICES</u>			
<u>Section 2.1 Chemical Analysis Services</u>			
<u>BETX Soil with MTBE</u>	<u>Unit Price</u>	<u>Each</u>	<u>85.00</u>
<u>BETX Water with MTBE</u>	<u>Unit Price</u>	<u>Each</u>	<u>81.00</u>
<u>COD (Chemical Oxygen Demand)</u>	<u>Unit Price</u>	<u>Each</u>	<u>30.00</u>
<u>Corrosivity</u>	<u>Unit Price</u>	<u>Each</u>	<u>15.00</u>
<u>Flash Point or Ignitability Analysis EPA 1010</u>	<u>Unit Price</u>	<u>Each</u>	<u>33.00</u>
<u>FOC (Fraction Organic Carbon)</u>	<u>Unit Price</u>	<u>Each</u>	<u>38.00</u>
<u>Fat, Oil, & Grease (FOG)</u>	<u>Unit Price</u>	<u>Each</u>	<u>60.00</u>
<u>LUST Pollutants Soil - analysis must include all volatile, base/neutral, polynuclear aromatic, and metal parameters listed in Section 734 Appendix B of this Part</u>	<u>Unit Price</u>	<u>Each</u>	<u>693.00</u>
<u>Organic Carbon (ASTM-D 2974-87)</u>	<u>Unit Price</u>	<u>Each</u>	<u>33.00</u>
<u>Dissolved Oxygen (DO)</u>	<u>Unit Price</u>	<u>Each</u>	<u>24.00</u>
<u>Paint Filter (Free Liquids)</u>	<u>Unit Price</u>	<u>Each</u>	<u>14.00</u>
<u>PCB / Pesticides (combination)</u>	<u>Unit Price</u>	<u>Each</u>	<u>222.00</u>
<u>PCBs</u>	<u>Unit Price</u>	<u>Each</u>	<u>111.00</u>
<u>Pesticides</u>	<u>Unit Price</u>	<u>Each</u>	<u>140.00</u>
<u>PH</u>	<u>Unit Price</u>	<u>Each</u>	<u>14.00</u>
<u>Phenol</u>	<u>Unit Price</u>	<u>Each</u>	<u>34.00</u>
<u>Polynuclear Aromatics PNA, or PAH SOIL</u>	<u>Unit Price</u>	<u>Each</u>	<u>152.00</u>
<u>Polynuclear Aromatics PNA, or PAH WATER</u>	<u>Unit Price</u>	<u>Each</u>	<u>152.00</u>
<u>Reactivity</u>	<u>Unit Price</u>	<u>Each</u>	<u>68.00</u>
<u>SVOC - Soil (Semi-volatile Organic Compounds)</u>	<u>Unit Price</u>	<u>Each</u>	<u>313.00</u>
<u>SVOC - Water (Semi-volatile Organic Compounds)</u>	<u>Unit Price</u>	<u>Each</u>	<u>313.00</u>
<u>TKN (Total Kjeldahl) "nitrogen"</u>	<u>Unit Price</u>	<u>Each</u>	<u>44.00</u>
<u>TOC (Total Organic Carbon) EPA 9060A</u>	<u>Unit Price</u>	<u>Each</u>	<u>31.00</u>
<u>TPH (Total Petroleum Hydrocarbons)</u>	<u>Unit Price</u>	<u>Each</u>	<u>122.00</u>
<u>VOC (Volatile Organic Compound) - Soil (Non-Aqueous)</u>	<u>Unit Price</u>	<u>Each</u>	<u>175.00</u>
<u>VOC (Volatile Organic Compound) - Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>169.00</u>
<u>Section 2.2 Geo-Technical Analysis Services</u>			
<u>Bulk Density ASTM D4292 / D2937</u>	<u>Unit Price</u>	<u>Each</u>	<u>22.00</u>
<u>Ex-Situ Hydraulic Conductivity / Permeability</u>	<u>Unit Price</u>	<u>Each</u>	<u>255.00</u>
<u>Moisture Content ASTM D2216-90 / D4643-87</u>	<u>Unit Price</u>	<u>Each</u>	<u>12.00</u>
<u>Porosity</u>	<u>Unit Price</u>	<u>Each</u>	<u>30.00</u>
<u>Rock Hydraulic Conductivity Ex-Situ</u>	<u>Unit Price</u>	<u>Each</u>	<u>350.00</u>
<u>Sieve / Particle Size Analysis ASTM D422-63 / D1140-54</u>	<u>Unit Price</u>	<u>Each</u>	<u>145.00</u>
<u>Soil Classification ASTM D2488-90 / D2487-90</u>	<u>Unit Price</u>	<u>Each</u>	<u>68.00</u>

<u>Section 2.3 Metals Analysis Services</u>			
<u>Arsenic TCLP Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>16.00</u>
<u>Arsenic Total Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>16.00</u>
<u>Arsenic Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>18.00</u>
<u>Barium TCLP Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>10.00</u>
<u>Barium Total Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>10.00</u>
<u>Barium Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>12.00</u>
<u>Cadmium TCLP Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>16.00</u>
<u>Cadmium Total Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>16.00</u>
<u>Cadmium Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>18.00</u>
<u>Chromium TCLP Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>10.00</u>
<u>Chromium Total Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>10.00</u>
<u>Chromium Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>12.00</u>
<u>Cyanide TCLP Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>28.00</u>
<u>Cyanide Total Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>34.00</u>
<u>Cyanide Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>34.00</u>
<u>Iron TCLP Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>10.00</u>
<u>Iron Total Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>10.00</u>
<u>Iron Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>12.00</u>
<u>Lead TCLP Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>16.00</u>
<u>Lead Total Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>16.00</u>
<u>Lead Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>18.00</u>
<u>Mercury TCLP Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>19.00</u>
<u>Mercury Total Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>10.00</u>
<u>Mercury Total Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>26.00</u>
<u>Selenium TCLP Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>16.00</u>
<u>Selenium Total Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>16.00</u>
<u>Selenium Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>15.00</u>
<u>Silver TCLP Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>10.00</u>
<u>Silver Total Soil</u>	<u>Unit Price</u>	<u>Each</u>	<u>10.00</u>
<u>Silver Total Water</u>	<u>Unit Price</u>	<u>Each</u>	<u>12.00</u>
<u>Metals TCLP Soil (a combination of all RCRA metals)</u>	<u>Unit Price</u>	<u>Each</u>	<u>103.00</u>
<u>Metals Total Soil (a combination of all RCRA Metals)</u>	<u>Unit Price</u>	<u>Each</u>	<u>94.00</u>
<u>Metals Water (a combination of all RCRA metals)</u>	<u>Unit Price</u>	<u>Each</u>	<u>119.00</u>
<u>Soil preparation for Metals TCLP Soil (one fee per sample)</u>	<u>Unit Price</u>	<u>Each</u>	<u>79.00</u>
<u>Soil preparation for Metals Total Soil (one fee per sample)</u>	<u>Unit Price</u>	<u>Each</u>	<u>16.00</u>
<u>Water preparation for Metals Water (one fee per sample)</u>	<u>Unit Price</u>	<u>Each</u>	<u>11.00</u>
<u>Section 2.3 Other Analytical Products & Services</u>			
<u>En Core Sampler, purge-and-trap sampler or equivalent sampling device</u>	<u>Unit Price</u>	<u>Each</u>	<u>10.00</u>

<u>Sample Shipping (*maximum total amount for shipping for all samples collected in a clendar day)</u>	<u>Unit Price</u>	<u>Day</u>	<u>50.00</u>
-	-	-	-
III PROFESSIONAL CONSULTING PRODUCTS & SERVICES			
Section 3.1 Professional Consulting Services			
<u>Engineer</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>103.13</u>
<u>Professional Engineer</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>126.76</u>
<u>Geologist</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>93.37</u>
<u>Prof. Geologist</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>121.94</u>
<u>Scientist</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>83.00</u>
<u>Project Manager</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>103.65</u>
<u>Technician</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>64.17</u>
<u>Account Technician</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>79.73</u>
<u>Administrative Assistant</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>49.79</u>
<u>Draftperson/CAD</u>	<u>Time and Materials</u>	<u>Hour</u>	<u>65.52</u>
Section 3.2 Professional Consulting Equipment & Instrumentation			
<u>Ph Meter</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>35.00</u>
<u>Electronic Water Level Indicator</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>30.00</u>
<u>Metal Detector</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>25.00</u>
<u>Datalogger</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>150.00</u>
<u>Transducer</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>50.00</u>
<u>Well Pump</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>60.00</u>
<u>Colorimeter</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>100.00</u>
<u>Colorimeter Reagent</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>0.95</u>
<u>Photoionization Detector</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>105.00</u>
<u>Hand Auger</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>32.00</u>
<u>Oil/Water Interface Meter</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>50.00</u>
<u>Peristaltic Pump</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>65.00</u>
<u>Bacterial Growth Test Kit</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>4.00</u>
<u>Skimmer</u>	<u>Time and Materials</u>	<u>WEEK</u>	<u>50.00</u>
<u>Multi-Meter</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>50.00</u>
<u>Site Survey Instrument/Equip.</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>250.00</u>
<u>Environmental Utility Vehicle</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>60.00</u>
Section 3.3 Professional Consulting Materials & Supplies			
<u>Latex Gloves</u>	<u>Time and Materials</u>	<u>PAIR</u>	<u>0.40</u>
<u>Manifest</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>3.00</u>
<u>Disposable Camera</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>10.00</u>
<u>Headspace Analysis Containers</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>0.15</u>
<u>Voa Sampling/Preservation Kit (9000-9001-9002)</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>10.00</u>
<u>Dedicated Poly Bailer</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>20.00</u>
<u>Glass Drum Sampler</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>4.50</u>
<u>Digital Camera</u>	<u>Time and Materials</u>	<u>DAY</u>	<u>25.00</u>
<u>Ferrous Sulfate</u>	<u>Time and Materials</u>	<u>POUND</u>	<u>1.00</u>

<u>B&W Copies</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>0.10</u>
<u>Color Copies</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>1.25</u>
<u>Section 3.4 Per Diem, Mileage, Lodging</u>			
<u>Per Diem</u>	<u>Time and Materials</u>	<u>EACH</u>	<u>28.00</u>
<u>Mileage</u>	<u>Time and Materials</u>	<u>MILE</u>	<u>0.38</u>
<u>Lodging</u>	<u>Time and Materials</u>	<u>NIGHT</u>	<u>100</u>

Personnel Titles and Rates

Title	Degree Required	Hl. License Req'd.	Min. Yrs. Experience	Max. Hourly Rate
Engineer I	Bachelor's in Engineering	None	0	\$75.00
Engineer II	Bachelor's in Engineering	None	2	\$85.00
Engineer III	Bachelor's in Engineering	None	4	\$100.00
Professional Engineer	Bachelor's in Engineering	P.E.	4	\$110.00
Senior Prof. Engineer	Bachelor's in Engineering	P.E.	8	\$130.00
Geologist I	Bachelor's in Geology or Hydrogeology	None	0	\$70.00
Geologist II	Bachelor's in Geology or Hydrogeology	None	2	\$75.00
Geologist III	Bachelor's in Geology or Hydrogeology	None	4	\$88.00
Professional Geologist	Bachelor's in Geology or Hydrogeology	P.G.	4	\$92.00
Senior Prof. Geologist	Bachelor's in Geology or Hydrogeology	P.G.	8	\$110.00
Scientist I	Bachelor's in a Natural or Physical Science	None	0	\$60.00
Scientist II	Bachelor's in a Natural or Physical Science	None	2	\$65.00
Scientist III	Bachelor's in a Natural or Physical Science	None	4	\$70.00
Scientist IV	Bachelor's in a Natural or Physical Science	None	6	\$75.00
Senior Scientist	Bachelor's in a Natural or Physical Science	None	8	\$85.00
Project Manager	None	None	8 ¹	\$90.00
Senior Project Manager	None	None	12 ¹	\$100.00
Technician I	None	None	0	\$45.00
Technician II	None	None	2 ¹	\$50.00
Technician III	None	None	4 ¹	\$55.00
Technician IV	None	None	6 ¹	\$60.00
Senior Technician	None	None	8 ¹	\$65.00
Account Technician I	None	None	0	\$35.00
Account Technician II	None	None	2 ²	\$40.00
Account Technician III	None	None	4 ²	\$45.00
Account Technician IV	None	None	6 ²	\$50.00
Senior Acct. Technician	None	None	8 ²	\$55.00
Administrative Assistant I	None	None	0	\$25.00
Administrative Assistant II	None	None	2 ³	\$30.00
Administrative Assistant III	None	None	4 ³	\$35.00
Administrative Assistant IV	None	None	6 ³	\$40.00
Senior Admin. Assistant	None	None	8 ³	\$45.00
Draftperson/CAD I	None	None	0	\$40.00
Draftperson/CAD II	None	None	2 ⁴	\$45.00

Draftperson/CAD III	None	None	4 ⁴	\$50.00
Draftperson/CAD IV	None	None	6 ⁴	\$55.00
Senior Draftperson/CAD	None	None	8 ⁴	\$60.00

¹ Equivalent work related or college level education with significant coursework in the physical, life, or environmental sciences can be substituted for all or part of the specified experience requirements.

² Equivalent work related or college level education with significant coursework in accounting or business can be substituted for all or part of the specified experience requirements.

³ Equivalent work related or college level education with significant coursework in administrative or secretarial services can be substituted for all or part of the specified experience requirements.

⁴ Equivalent work related or college level education with significant coursework in drafting or computer aided design ("CAD") can be substituted for all or part of the specified experience requirements.

Appendix F- Scope of Services & Reasonable Quantity Guidance for Standard Products & Services Listed in Appendix E.

Section 734.810:

UST Removal/Abandonment Services

Appendix E Section: Section 1.1

Scope of Services:

UST removal services include all labor, equipment, materials and supplies typically necessary to permit, vapor free, excavate, remove, purge, cut, clean, transport and properly dispose of an underground storage tank as well as the services and material necessary to backfill the excavation. (Excavation, transportation and disposal of contaminated backfill or soil and pumping, containerization and disposal of liquids is not included)

UST abandonment services includes all labor, equipment, materials, supplies and subcontractor services typically necessary to permit, vapor free, excavate (if necessary), fill with slurry and properly abandon an underground storage tank in compliance with the requirements of the Illinois State Fire Marshal. (Excavation, transportation and disposal of contaminated backfill or soil and pumping, containerization and disposal of liquids is not included)

Billing Method & Unit of Measure:

Pursuant to Appendix E, the Bill Method for Tank Removal services is Unit Rate and the Bill Method for Tank Abandonment Services is Time and Materials. The Unit of Measure for Tank Removal Services is "Each".

Reasonable Quantity Guidance:

These services will generally be rendered in association with Task 734.210 (f) (1), 335(c) and 340 (c). A quantity of one (1) unit shall be presumed reasonable for each tank removed as part of a corrective action provided that the Office of the Illinois State Fire Marshal considered the tank to be a regulated and eligible underground storage tank and that the removal did not occur prior to the Incident Date . The Standard Product or Service code shall be selected based upon the size of the tank being removed.

Professional oversight of these Field Services is appropriate. An environmental professional should be on site at all times during tank removal activities. The hours necessary for the environmental professional to travel from his or her office to and from the job site prior and subsequent to tank removal or abandonment services is reasonable as are associated per diems, lodging and mileage. An engineer, technician or geologist would typically be expected to staff this field oversight activity.

Instrumentation and equipment that would typically be expected to be associated with this professional oversight include, but are not limited to, the following: Combustible Gas Indicator, Photo-Ionization Detector, Disposable Camera, Headspace Analysis Containers, Utility Vehicle.

Section 734.815:

Free Product Removal & Groundwater Removal & Disposal Services

Appendix E Section: Section 1.2

Scope of Services:

Free product removal and disposal services and groundwater removal and disposal services include all labor, equipment, materials, supplies and subcontractor services typically necessary to remove, containerize, transport and properly dispose of free product or groundwater via vacuum truck or other bulk disposal method. The design, construction, operation, maintenance and closure of free product or groundwater removal or treatment systems is not covered in these services. The disposal of liquid waste via 55 gallon drum is not included in this Service. Disposal of liquid waste via 55 gallon drum is covered in Section 734.830.

Billing Method & Unit of Measure:

Pursuant to Appendix E, the Bill Method for these services is Unit Rate. The Unit of Measure for these services is "Gallon".

Reasonable Quantity Guidance:

These services will generally be rendered in association with Task 734.210 (b) (1), 734.210 (b) (3), 734.210 (b) (6), 734.210 (f) (1), 734.210 (f) (2), 734.210 (f) (3), 215 (a) (1), 214 (e), 315 (a) (1), 315 (a) (2), 320 (a) (1), 320 (a) (2), 325 (a) (1), 325 (a) (2), 335(c) and 340 (c). A quantity of one (1) unit shall be presumed reasonable for each gallon of free product or groundwater documented as being properly disposed. If the number of gallons actually disposed is less than 294 gallons, the minimum quantity of two-hundred ninety four (294) gallons shall be reasonable and paid for any one disposal episode.

Professional oversight of these Field Services is appropriate. An environmental professional should be on site at all times during the performance of these services. The hours necessary for the environmental professional to travel from his or her office to and from the job site prior to and subsequent to these services is reasonable as are associated per diems, lodging and mileage. A Technician, Geologist or Scientist would normally be expected to staff this oversight activity.

Instrumentation and Materials and Supplies that would typically be expected to be associated with the professional oversight of these services include, but are not limited to, the following: Combustible Gas Indicator, Disposable Camera, Oil Water/Interface Meter, Utility Vehicle, waste manifest.

Section 734.820:

Drilling, Well Installation and Well Abandonment Services

Appendix E Section: Section 1.3

Scope of Services:

These services are subcategorized into the following Services: 1.) Hollow stem auguring for sampling, 2.) Direct push advancement for sampling, 3.) Well placement in hollow stem sampled borehole 4.) Well placement in a probe advanced/sampled borehole 5.) Direct push injections, 6.) Hollow stem auguring/well installation only; 7.) Direct push advancement/well installation only, 8.) Well abandonment, 9.) Equipment and Crew Mobilization.

Hollow stem auguring/sampling and direct push advancement/sampling services include all labor, equipment, materials, supplies and subcontractor services typically necessary to advance a borehole into the subsurface for purposes of collecting an analytical sample. This includes the cost to decontaminate the drilling equipment between samples and/or borehole locations but does not include the costs necessary to set a monitoring well.

Well placement in hollow stem sample boreholes and well placement in probe advanced/sampled boreholes includes the costs of all labor, equipment, materials, supplies and subcontractors to properly install a monitoring well in an augured or probed hole, but not the costs to advance the hole since the costs of advancing the hole are included in the costs to advance the hole for sampling purposes.

Direct push injections include all labor, equipment, materials and supplies and subcontractor services necessary to utilize a direct push unit to inject compounds into the subsurface for bio-augmentation, bio-enhancement or other purposes.

Hollow stem auguring/well installation only and direct push advancement/well installation only include the costs of all labor, equipment, materials, supplies and subcontractor services necessary to advance a hole into the subsurface for the exclusive purpose of installing a monitoring, recovery or treatment well.

Well abandonment services include all labor, equipment, materials, supplies and subcontractor services necessary to properly fill, seal and abandon a monitoring, recovery or treatment well.

Mobilization services include all labor, equipment, materials, supplies and subcontractors necessary to transport all personnel and equipment from the contractor's primary office location to and from the job site.

Billing Method & Unit of Measure:

Pursuant to Appendix E, the Bill Method for these services is as stipulated in the Table Below.

Bill Methods Table

<u>Description of Service</u>	<u>Bill Method</u>	<u>Unit of Measure</u>
<u>Hollow Stem Auguring for Sampling Purposes</u>	<u>Foot Unit Rate</u>	<u>Foot</u>
<u>Direct Push Advancement for Sampling for Sampling Purposes</u>	<u>Foot Unit Rate</u>	<u>Foot</u>
<u>Well Placement in Hollow Stem Sampled Borehole.</u>	<u>Foot Unit Rate</u>	<u>Foot</u>
<u>Well Placement in Probe Advanced/Sampled Borehole</u>	<u>Foot Unit Rate</u>	<u>Foot</u>
<u>Direct Push Injections</u>	<u>Foot Unit Rate</u>	<u>Foot</u>
<u>Hollow stem auguring/well installations 4-6"</u>	<u>Foot Unit Rate</u>	<u>Foot</u>
<u>Probe advancement/well installations 8+"</u>	<u>Foot Unit Rate</u>	<u>Foot</u>
<u>Well abandonment</u>	<u>Foot Unit Rate</u>	<u>Foot</u>
<u>Equipment & Crew Mobilization</u>	<u>Each Unit Rate</u>	<u>Each</u>

Reasonable Quantity Guidance:

Drilling, well installation and well abandonment services will generally be rendered in association with Task listed in the table provided below.

Products & Services Associated Task Table

<u>Description of Service</u>	<u>Typically Associated Task</u>
<u>Hollow Stem Auguring/Sampling</u>	<u>210 (h) (2), 215 (a) (1), 215 (e), 315 (a) (1), 315 (a) (2), 320 (a) (1), 320 (a), (2), 325 (a) (1), 325 (a) (2), 340 (c),</u>
<u>Direct Push Advancement Sampling</u>	<u>210 (h) (2), 215 (a) (1), 215 (e), 315 (a) (1), 315 (a) (2), 320 (a) (1), 320 (a), (2), 325 (a) (1), 325 (a) (2), 340 (c),</u>
<u>Well Placement in Hollow Stem Sampled Borehole.</u>	<u>215 (a) (1), 315 (a) (2) (B), 320 (A) (2), 325 (a) (2), 340 (c),</u>
<u>Well Placement in Probe Advanced/Sampled Borehole</u>	<u>315 (a) (2) (B), 320 (A) (2), 325 (a) (2), 340 (c),</u>
<u>Direct Push Injections</u>	<u>340 (c)</u>
<u>Hollow stem auguring/well installations</u>	<u>315 (a) (2) (B)</u>
<u>Probe advancement/well installations</u>	<u>315 (a) (2) (B)</u>
<u>Well abandonment</u>	<u>315 (a) (2), 320 (a) (2), 325 (a) (2), 340 (c)</u>
<u>Equipment & Crew Mobilization</u>	<u>All of the above.</u>

For services conducted pursuant to Subpart B of this Part, with the exception of those Tasks associated with free product removal performed pursuant to an approved plan, the owner or operator shall demonstrate that the drilling, well installation and well abandonment services were necessary to achieve the objective of Subpart B. Each foot of drilling validated as necessary to comply with Subpart B shall be deemed reasonable. A single mobilization shall be deemed reasonable for each drilling episode required in association with Task performed in order to meet the requirements of Subpart B.

For services performed pursuant to Subpart C of this Part, a unit of one foot shall be deemed reasonable for each foot of borehole/probehole advanced at a location and to a depth necessary to comply with the Site Investigation provisions of Subpart C. For drilling, well installation and well abandonment services performed pursuant to Subpart C, a unit of one foot shall be deemed reasonable for each foot of borehole/probehole advanced for purposes of remediation provided that the approximate location and depth of the borehole was approved in the corresponding work plan. For hollow stem auguring/sampling services and direct push advancement/sampling services a minimum quantity of seventy (70) feet shall be considered reasonable and paid per auguring/probing event even if the actual feet augured/probed is less. For direct push injection services, a minimum quantity of eighty (80) feet shall be considered reasonable and paid per direct push injection event even if the number of feet actually advanced is less. The original depth of the well advanced shall serve as the reasonable quantity in determining the number of feet that is reasonable for well abandonment.

Professional oversight of these Field Services is appropriate. An environmental professional should be on site at all times during the performance of these services. The hours necessary for the environmental professional to travel from his or her office to and from the job site prior to and subsequent to these services is reasonable as are associated per diems, lodging and mileage. An engineer, technician, geologist or scientist would normally be expected to staff this oversight activity. Professional oversight services would not be expected for Equipment and Crew Mobilization services and Well Abandonment Services.

Instrumentation and Materials and Supplies that would typically be expected to be associated with the professional oversight of these services include, but are not limited to, the following: Metal Detector, Photo-Ionization Detector, Disposable Camera, Headspace Analysis Containers, Utility Vehicle, Electronic Water Level Indicator, Latex Gloves, Manifest, Site Survey Instruments/Equipment, VOA Sampling Preservation Kit. None of the instrumentation or equipment would be expected for Well Abandonment Services or Equipment and Crew Mobilization Services.

Section 734.825:
Soil Removal and Disposal

Appendix E Section: Section 1.4

Scope of Services:

Soil removal and disposal services are categorized into three services as listed in the Scope of Service Table Below. The scope of services relating to each service is also provided in the Scope of Services Table below.

Scope of Services Table

<u>Removal, transportation and disposal of contaminated soil</u>	<u>This service includes all labor, equipment, materials, supplies and subcontractors necessary to excavate, load, transport and dispose, at a permitted facility, all contaminated soil and all concrete, asphalt or paving overlying such contaminated soil.</u>
<u>Purchase, transportation and placement of clean backfill</u>	<u>This service includes all labor, equipment, materials, supplies and subcontractors necessary to acquire, transport, unload and place clean backfill into an excavation.</u>
<u>Removal and Return of Clean Overburden</u>	<u>This service includes all labor, equipment, materials, supplies and subcontractors necessary to excavate, load, transport, unload and store clean overburden at the job site and then load, transport and place the material back into the excavation after remedial services are completed. It does not include costs to store material off-site if the job site location is not large enough to permit on site stockpiling.</u>

Billing Method & Unit of Measure:

The Bill Method for these services is provided in the Billing Method Table Below

<u>Description of Service</u>	<u>Bill Method</u>	<u>Unit of Measure</u>
<u>Removal, transportation and disposal of contaminated soil</u>	<u>Cubic Yard Unit Rate</u>	<u>Cubic Yard</u>
<u>Purchase, transportation and placement of clean backfill</u>	<u>Cubic Yard Unit Rate</u>	<u>Cubic Yard</u>
<u>Removal and Return of Clean Overburden</u>	<u>Cubic Yard Unit Rate</u>	<u>Cubic Yard</u>

Reasonable Quantity Guidance:

Contaminated soil, backfilling and clean overburden handling services may be expected to be provided in association with the following tasks: 734.210 (a) (3), 734.210 (b) (2), 734.210 (b) (4), 734.210 (f) (3),

734.210 (f) (4), 215 (e), 335 (c), 340 (c) (combination soil & groundwater remediation).

For purposes of determining a Reasonable Quantity the guidance provided in the Reasonable Quantity Guidance Table below shall be utilized.

Reasonable Quantity Guidance Table

<u>Description of Service</u>	<u>Bill Method</u>	<u>Unit of Measure</u>	<u>Quantity Guidance</u>
<u>Removal, transportation and disposal of contaminated soil</u>	<u>Cubic Yard Unit Rate</u>	<u>Cubic Yard</u>	<u>For budgeting purposes a Reasonable Quantity shall be the estimated length & width & depth of the excavation multiplied times 1.05. For purposes of reimbursement the Reasonable Quantity shall be the number of tons disposed divided by 1.5 or a site specific conversion factor calculated by scientifically acceptable means. Soil volumes removed from the area immediately adjacent to the exterior of a UST during early action shall not exceed the values provided in Appendix C.</u>
<u>Purchase, transportation and placement of clean backfill</u>	<u>Cubic Yard Unit Rate</u>	<u>Cubic Yard</u>	<u>For budgeting purposes a Reasonable Quantity shall be the estimated length & width & depth of the excavation multiplied times 1.05. For purposes of reimbursement the Reasonable Quantity shall be the number of tons disposed divided by 1.5 or a site specific conversion factor calculated by scientifically acceptable means. Soil volumes removed from the area immediately adjacent to the exterior of a UST during early action shall not exceed the values provided in Appendix C.</u>
<u>Removal and Return of Clean Overburden</u>	<u>Cubic Yard Unit Rate</u>	<u>Cubic Yard</u>	<u>For budgeting and reimbursement purposes a Reasonable Quantity shall be the estimated length & width & depth of the excavation multiplied times 1.05</u>

Professional oversight of these Field Services is appropriate. An environmental professional should be on site at all times during these services. The hours necessary for the environmental professional to travel from his or her office to and from the job site prior and subsequent to the performance of the Field Services listed in this Section is reasonable as are associated per diems, lodging and mileage. Personnel that would be appropriate to perform oversight of this Service include: Geologist, Engineer, Technician and Project Manager.

Instrumentation and equipment that would typically be expected to be associated with the professional oversight of this Field Service include, but are not limited to, the following: Combustible Gas Indicator, Photo-Ionization Detector, Disposable Camera, Headspace Analysis Containers, Utility Vehicle, Latex Gloves, Site Survey Instruments/Equipment. VOA Sampling Preservation Kit, Manifest.

Section 734.830:
Drum Disposal Services

Appendix E Section: Section 1.5

Scope of Services:

Solid Waste Drum Disposal services include all labor, equipment, materials, supplies and subcontractors typically necessary to purchase, transport and dispose of 55 gallon drums containing non-hazardous solid waste generated during a corrective action.

Liquid Waste Drum Disposal services include all labor, equipment, materials, supplies and subcontractors typically necessary to purchase, transport and dispose of 55 gallon drums containing non-hazardous liquid waste generated during a corrective action.

Billing Method & Unit of Measure:

Pursuant to Section 1.5 of Appendix E, the Bill Method for these services is Unit Rate. The Unit of Measure for Drum Disposal Services provide in Section 1.5 of Appendix E is "Drum".

Reasonable Quantity Guidance:

Drum disposal services will generally be rendered in association with Task 734.210 (f) (1), 335(c) and 340 (c).

A quantity representing each 55 gallon drum or portion thereof that is required to be disposed pursuant to the provisions of the Act shall be considered to be reasonable. A minimum quantity of four liquid waste drums is reasonable per disposal event and a minimum quantity of two solid waste drums is reasonable per disposal event, even if the actual quantity of drums disposed per event is less than these levels.

Professional oversight of these Field Services is not necessary.

Section 734.835:
Concrete, Asphalt & Paving Services

Appendix E Section: Section 1.6

Scope of Services:

Concrete and asphalt paving services include all labor, equipment, materials and supplies typically necessary to install concrete or asphalt as an engineered barrier or replacement material as appropriate. Concrete is assumed to be un-reinforced five bag mix and asphalt is assumed to be grade X.

Billing Method & Unit of Measure:

Pursuant to Section 1.6 of Appendix E, the Bill Method for these services is Unit Rate. The Unit of Measure for Concrete, Asphalt & Paving Services provide in Section 1.6 of Appendix E is "Square Foot".

Reasonable Quantity Guidance:

Concrete, asphalt paving services will generally be rendered in association with Task 335(c) and 340 (c).

A number of units equal to the width times multiplied by the length of the area of the excavation as calculated in accordance with Section 734.825 shall be presumed reasonable as it pertains to replacement concrete or asphalt. A reasonable quantity of concrete or asphalt installed as an engineered barrier shall be the length times the width of the area that is covered by the engineered barrier.

Professional oversight of these Field Services is appropriate. An environmental professional should be on site at all times during concrete or asphalt replacement services. The hours necessary for the environmental professional to travel from his or her office to and from the job site prior and subsequent to ~~tank removal or abandonment~~ asphalt and paving services is reasonable as are associated per diems, lodging and mileage. These services would be expected to be overseen in the field by an engineer, technician or project manger.

Instrumentation and equipment that would typically be expected to be associated with this professional oversight include, but are not limited to, the following: Site Survey Instrumentation/Equipment.

Section 734.840:
Analytical & Testing Services

Appendix E Section: Section II

Scope of Services:

Analytical and Testing Services include all labor, equipment, materials and supplies typically necessary to transport, deliver, prepare and analyze samples and report the results subject to the appropriate methods.

Billing Method & Unit of Measure:

Pursuant to Section II of Appendix E, the Bill Method for these services is Unit Rate. The Unit of Measure for Analytical and Testing Services provide in Section 1.1 of Appendix E is "Each".

Reasonable Quantity Guidance:

Analytical and Testing Services will generally be rendered in association with Task 734.210 (b) (5), 734.210 (h) (1), 734.210 (h) (2), 315 (a) (2) (C), 315 (a) (2) (D), 315 (a) (2) (E), 320 (a) (2), 325 (a) (2), 335 (c), 340 (c), 345 (a), 355 (a).

A reasonable quantity of sample analysis shall be equal to the minimum number of samples required by the Agency in order to meet the requirements of this Part.

Professional oversight of these Field Services is not necessary. Professional Consulting Services necessary to collect samples is covered by Section 734.845.

Section 734.845:
Professional Consulting Services

Appendix E Section: Section 3.1, 3.2, 3.3

Scope of Services:

Professional Products and Services include all labor, equipment, materials, supplies and subcontractors necessary and associated with the design, oversight, analysis, management, administration and documentation of investigative and remedial activities during a corrective action project as well as the professional consulting and associated services necessary to perform all Agency required, planning, budgeting, certification, reporting, correspondence. Professional consulting services also include all services necessary and associated with cost reimbursement from the Fund.

Billing Method & Unit of Measure:

Pursuant to Section 3.1, 3.2 and 3.3 of Appendix E, the Bill Method for these services is Time and Materials. The Units of Measure for Professional Consulting related charges which may consist of Professional Consulting Labor, Professional Consulting Equipment & Instrumentation and Professional Consulting Materials & Supplies are found in Section 3.1, 3.2, and 3.3 respectively of Appendix E.

Reasonable Quantity Guidance:

Professional Consulting Services are anticipated to be provided in relation to each of the Tasks specified in Appendix D.

For Professional Consulting Services listed in Section 3.1 of Appendix E the total number of hours for all listed labor classifications, including personnel performing field oversight, shall be aggregated and the Agency shall presume that any quantity of total hours that is equal to or less than those listed below shall be reasonable on a per Phase of Work basis provided that each hour is documented as being performed and that the work activity is justified.

Reasonable Professional Consulting Hours Table

<u>Early Action</u>	<u>220</u>
<u>Site Investigation</u>	<u>460</u>
<u>Corrective Action</u>	<u>560</u>