

TECHNICAL PROPOSAL RFP NUMBER: RBCA 1509-01 RFP TITLE: ENVIRONMENTAL SUPPORT SERVICES

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1. Executive Summary

Geode Environmental (Geode) is responding to Request for Proposal Number RBCA 1509-01: Environmental Support Services and the firm has familiarized itself with the documentation provided as part of the RFP. Due to the nature of such an assistance project, specifics with regard to site requirements, as well as the sites themselves, are not provided. Geode has relied on the list of services to be provided and historical experience to assimilate the bid. Section 1.4 of the RFP and indicates actions will be utilized to provide assessment and corrective action services for sites which had been issued a no further action certificate. These sites are subject to re-evaluation in circumstances where the Iowa Department of Natural Resources (IDNR) determines that an unreasonable or undetermined risk to public health and safety may exist.

As required by the RFP, Geode's bid contains two separately submitted proposals consisting of a Technical Proposal and a Cost Proposal. While the parameters to this project are not specific, Section 4.2 of the RFP and Exhibit A of the Cost Proposal indicate that works tasks would include, but not be limited to: Site Checks; Limited Tier 1, 2, and 3 RBCA Activities; Site Monitoring Activities; Corrective Action Design Development and Implementation; Free Product Recovery; Monitoring Well Installation, Repair and Closure; Abandoned Water Well Closure; Multi-Media Sampling and Analytical Testing; Petroleum Release 'forensic' analyses; and Record Searches. Geode is very familiar with these activity types and has built their business model around providing these services.

The key personnel on the project is Ray Widder, Certified Groundwater Professional #1624. Mr. Widder started Geode in 2006 after 15.5 years working for a separate Iowa based environmental consulting firm. Mr. Widder has been involved in the investigation of Iowa Leaking Underground Storage Tank (LUST) sites for 25 total years. Due to his early involvement in the process, Mr. Widder's career has followed along with the development of the LUST program from the Insurance Site Check phase in 1990, through Site Assessment Reports (SARs), Site Cleanup Reports (SCRs) and Risk Based Corrective Action (RBCA) investigations. This background should be particularly helpful in the understanding of previous data and interpretation for sites which have been closed for a number of years. Geode has minimal projects on current backlog. Mr. Widder currently works slightly over 61% of available hours, providing indication that significant time contribution could be made to the project.

Geode has enlisted the assistance of FireHawk Seeds, LLC of Granger, Iowa to assist with projects on an as needed basis. FireHawk is a single employee entity consisting of Jerrod Robinson. Mr. Robinson has nearly 19 years of experience in UST related services. FireHawk will be utilized primarily for field work in the event that scheduling conflicts prohibit completion by Geode, or to ensure that deadlines are met.

Geode is a 9.5 year old firm registered for business in the State of Iowa as a Limited Liability Company. The primary office location of the firm is located in Johnston, Iowa which is centrally located within the State. The centralized location of the firm allows for reduced mobilization to many LUST sites, and is within 2 hours of numerous large market areas. As part of the consideration for field services, Geode has enlisted the assistance of additional sub-contractors who can provide more expedited access to Eastern and Western Iowa on an as needed basis.

Insurance requirements for the project are currently met by Geode. Insurance submittals have been required as part of the on-going contract for RBCA 0908-01: Environmental Support Services and

should be on file with the Board. This insurance will remain in effect and provides evidence of Geode's ability to access, fund and establish such insurance limits.

Attached with this Technical Proposal is a cover letter which summarizes contact information for Geode. Reiteration of the information is provided in Section 3.1 General Background Information.

The entire contents of the proposals should be considered public in nature. Geode seeks no restraint of the documents from the public.

Geode has read the RFP multiple times in order to assure understanding and ability to comply with the terms outlined therein. We generally agree with the terms and conditions of the RFP and contract. An exception is outlined in Section 9.

2. Technical Specifications

2.1 Written Narrative

As no specific projects, or project scopes are available, it is difficult to develop a narrative demonstrating the manner in which the requirements will be met. Geode will utilize this area to provide our perception of the method by which the individual projects will be handled based on past experience.

It is assumed that the DNR will identify individual projects which have either re-opened for investigation or are potentially viable candidates to re-open. This information would then be forwarded to the contractor of choice. If selected, Geode would take the information, including any summaries of circumstances surrounding the choice and review available documents. This research would start with the more recently completed reports identifying concerns not found during previous LUST investigation. During this action, further information will be collected regarding LUST and Registration numbers, existing or historical tank specifics, and like information for adjacent facilities. Collection of the historical LUST file as a digital document may be made through the DNR Records Section. If necessary, Geode would then mobilize to the DNR LUST Section in nearby Des Moines to perform review of pertinent files. This would be considered a thorough review.

Data would be recorded regarding previously identified site conditions such as concentrations, hydraulic conductivity, soil types and known receptors. This list would be utilized to provide initial identification of receptors of concern. The DNR or IUST Fund would likely have provided some initial indications. A list of the major documents reviewed would be recorded and potentially utilized to identify and obtain existing software files from the IDNR.

Evaluation of the site would be performed to determine recommendations regarding further actions. These may include a site check, limited site check, receptor update, groundwater monitoring, or RBCA investigation. Upon determination of the recommended course of action, Geode would provide a proposal course of actions to the IUST Fund and IDNR for scope of service approval. Once the scope of services has been agreed upon, a budget would be provided to the IUST Fund. Rapid approval is anticipated knowing that the scope of services has been agreed upon and unit costs generally exist. Costs will have primarily been outlined in the Cost Proposal, provided under separate cover.

Geode would wait for budgetary approval prior to performing the actions outlined. If required, mobilization to the site would occur. Field activities would then be performed as approved. If, during the course of on-site activities, changes are required, or appear to be useful in providing support information, Geode would contact Fund representatives via telephone from the field for verbal approval. In the event sub-contracted field activities are performed, the on-site contractor will be in telephone contact with Geode to confirm completion of activities as scheduled and provide description of events. Changes in the scope of services will not be performed unless funding is verbally approved at a minimum. Any verbally approved changes to the scope of services would be documented and a change order would be completed as supplemental documentation and for written approval. A detailed description of methodologies is provided in Section 2.2.

2.2 Sequential Description of Tasks

This step-by-step description relates to the Scope of Work/Services to be Provided in Section 4 of the RFP. As stated in the above narrative, Geode would generally initiate a project with file research and determination of a best approach. This approach would be utilized to determine the initial direction of the project. This direction may be encompassed in, adapted from, or of similar protocol to the discussions below.

2.2.1 Site Checks

Site checks are performed through the use of borings to isolate potential sources (existing tanks & lines, or historical tank excavations) and perform sampling at the suspected areas of maximum hydrocarbon impact. Guidance has been established for the location of borings based on the number and position of tanks, as well as the length of product lines. Borings are advanced using a truck mounted rotary hydraulic or compression (direct push) unit. Soil drilling protocol is discussed elsewhere in Section 2.2 of this proposal. At least 48 hours prior to any activities, Iowa One Call will be contacted to ensure the clearance of potentially dangerous subsurface obstructions. Soil samples are obtained from maximum field screening intervals, 1 to 2 foot below the tank/line depth, or at the static water level, pending screening results and depth to water. Borings are placed surrounding the tanks in positions outlined and determined by the number, location, and size of tanks present. A water sample is to be collected in the assumed downgradient direction within 5' of the tanks or lines. Geode would alternately position this sampling location in the boring indicating maximum field screening levels if contamination is evident. Completion of this task would assist the investigation by obtaining concentrations at the most likely location of groundwater impact. Site check reporting follows no specific format. However, the report would contain a written summary of sampling protocols, a site map, boring logs, analytical data and a tabular analytical summary. Recommendations as to further actions would be provided.

2.2.2 Limited Tier 1, 2, and 3 RBCA Activities

For the purposes of this section, discussion will be generalized to defined Tier protocols. As indicated in the heading, "limited" versions of these may be required which could alter the suggested method of completion.

Tier 1 report writing may be initiated after the completion of a drilling plan utilized to identify potential source areas (areas of maximum suspected concentrations). Soil sampling and groundwater sampling are discussed later in this section. Differences to the Tier 1 sampling protocol include the reduction of soil sample locations. A minimum of 3 soil samples are required at a Tier 1 site at the tanks, dispensers and down gradient of maximum soil field screening results. Other borings completed adjacent to the tanks, lines and dispensers will rely on field screening results for comparison to confirmed concentrations.

Monitoring well construction is required at soil sampling locations. Circumstances may require the addition of a well if: the dispensers are located above the tanks; elevated field screening is observed along product lines; and/or wells are linearly arranged and prohibit the triangulation of data for determination of flow direction. Upon completion of each bore, it will be covered and left open until determination of monitoring well locations can be made. In the event that the wells are at risk to run-off due to precipitation or position relative to dispensers, a bentonite dam will also be constructed. It should be specifically noted that bores completed using the probe unit will be overdrilled using minimum diameter 4.25 inch OD flight augers if well installation is necessary. Once well locations are determined, the threaded well screens equipped with an end cap are connected to riser pipe and inserted into the well. Ideally, the well screen crosses the impacted interval as indicated by soil field screening. Determination of the water level through soil observation and/or historical data is also important to ensure that sufficient screen is present above the seasonal water level. Screened intervals consist of 2" PVC piping with 0.01 inch slots. The annular space surrounding the slotted section is filled with sand using a slow pour to prevent bridging. The sand filter is completed 6" above the screened interval. Bentonite is placed in the remaining annular space to a level approximately 9 inches below grade. A steel, flush mount manway cover is placed over the well and concreted to the surface. A thin (3") layer of sand is placed inside the manway to prevent contact with the bentonite. Borings requiring a monitoring well, which have collapsed would require overdrilling to re-open the bore for well installation.

Receptor identification is an important part of any Tier 1 investigation. During construction of the cost estimate for the project, Geode will complete an online well search to determine if water wells are present within 1,000 feet. Additional contacts with the City will be made to ascertain the proximity of plastic water lines, sanitary sewers and basements during the investigation. This information will be cross referenced with existing maps and aerial photography to further support distances to the nearest receptors. This information, along with historical concentration data may suggest that a Tier 2 investigation is more appropriate.

Once sampling has been completed in the source areas, the site will be assessed through the completion of a Tier 1 report. Although options to "go to Tier 2" were originally built into the Tier 1 software, the groundwater professional should be aware of this condition and provide these recommendations prior to initiating authorship of a Tier 1. If a Tier 1 is appropriate, a No Risk classification should be assumed following completion of any necessary notifications to authorities.

The Tier 1 software is a basic input/output package whereby concentration maximums, receptor proximity, and basic hydraulic conditions are input. Pathway risks are output. The bulk of the report relies on the accurate completion of site, concentration, and flow mapping. Mapping will be neatly completed using an AutoCAD (or similar) constructed basemap. Data will be input into a Tier 2 copy of the concentrations to provide plume maps for soil and groundwater. Results of previously existing, or newly acquired, hydraulic conductivity data is utilized. In the event this testing is required, bail down/recharge tests are performed. Rising groundwater levels will be observed over time as recharge occurs. Data will be recorded on-site and observed for 90% recharge where sufficient time allows. Generally, in the event that 90% recharge cannot be achieved within 0.5 hours of the baildown, the straight line portion of the data curve has been reached, thereby providing sufficient data for determination of a low conductivity value. Data evaluation is completed through the use of the Aqtesolv (or similar approved) software program utilizing the Bouwer-Rice solution for unconfined aquifers.

Tier 2 reports will be completed utilizing the instructions set forth in the Tier 2 guidance document and any subsequent Tank Memos and Groundwater Professional bulletin board listings. In order to complete a Tier 2 report, minimum field achievements must be met such as plume definition in the direction of pertinent receptors, and plume closures to a minimum level. Receptor research, as described above must be performed. Data will be observed for abnormalities and potential samples which should be ignored, or reduced in concentrations based on soil redrilling. A groundwater contour map will be completed utilizing the data obtained during well gauging events. These maps will be evaluated for flow direction and gradient. The average gradients of the events, determined by measuring groundwater drop over distance at multiple locations across the plume will be averaged with historical data. The flow direction will be compared to historical information to determine whether modifications to the existing Tier 2 flow direction is applicable. Range of plume flow is determined based on the spread of the groundwater contour flow or spread of the observed contaminant plumes. Hydraulic conductivities are evaluated and the maximum value is confirmed and utilized within the software program. The data set will be run through the Tier 2 process by first evaluating the source width and length (Sw/W) of the soil and groundwater plumes for sum BTEX, Diesel, Waste Oil and free product (groundwater only). Maximum Sw/W for each media is input into the software. In the event that a range of 150 degrees (circular) is used, the maximum value of each Sw/W will be utilized by measuring across the plume in its widest direction. Plumes where concentration values are below the minimum Tier 1 action levels for the corresponding chemical will be omitted from consideration. In the event that "split" plumes are observed, totaling will be utilized to derive the Sw/W. Output and measurements will be provided in the final Tier 2 document. Justification and observations/comparisons of the current data will be discussed the Site Hydrogeology Justification section of the Tier 2.

Receptor evaluation will be completed by running the software's Receptor ID maps to determine the position of receptors relative to the generated model. If receptors are located within the model, or actual plume, further evaluation will be performed in the form of Pathway Evaluation. If the receptors fall outside the actual and modeled plumes, they will be considered No Risk and no further evaluation will be performed. Output of the models will be overlain on the base map and provided in its corresponding section of the Tier 2.

Pathway evaluations will be completed for each individual receptor located within the model. Selection of key wells for actual receptors will be made through the selection of wells located within the derived plume contoured to the SSTL, and those within the primary trapezoidal area. Geode Environmental does not utilize the Auto Select feature of the software as it frequently misses key wells. From this set of wells, a best fit transitional well and guard well will be chosen. Determination of the best fit will be based on proximity to the center line between the source well and the receptor. In the event of the receptor being located to close to the source well (<50'), the transition and/or guard well may be omitted. Completion of this series of tasks will provide accurate assessment of the individual receptor and determination of each monitoring well's SSTL. DXF file export to AutoCAD will be utilized to provide maps for the final report. SSTL summary pages will be included in the Tier 2 document.

Similar procedures will be utilized to evaluate the potential pathways for groundwater (Low Risk), most notably the Groundwater to Protected Groundwater Source. The software will derive E wells, those exceeding the pathway specific target levels. A transition and guard well will be selected as criteria fit and will be chosen as those in the general direction of flow across the contaminant plume. A most limiting transition well will be determined in the direction of the most limiting receptor. In the case of utilizing a range of 150 degrees, this will be the boundary closest to the source.

Soil Leaching pathway evaluation would be completed by identifying receptors located within the modeled plume (no actual plume exists) and selection of the soil leaching well. This well is chosen as the well located within the actual soil and groundwater plumes, exhibiting elevated concentrations and within close proximity to the soil source. Potential receptors are evaluated through the same process. The soil leaching well is chosen only one time. Software derived SSTLs will be provided in the Tier 2.

Soil Vapor and Soil to Water Line pathway evaluation is performed through the position of the actual plumes to the corresponding target levels. Simply put, if an actual receptor lies within the plume or its corresponding buffer (50' for vapor, 10' for water lines), it is considered High Risk. Without institutional controls, potential pathways are considered Low Risk merely by having data which exceeds the target level.

Risk of all receptors and pathways will be summarized in their corresponding Receptor Summary. A summary and discussion of risk conditions will be provided in the Tier 2 which will include a listing of receptors and their corresponding SSTLs. In the event that High Risk receptors are present, discussion will include receptor specific preliminary recommendations for corrective action. A monitoring plan will be derived based on completion of the software with professional judgment.

Following DNR review of the Tier 2, upon the request of the IDNR and funding approval, Geode will incorporate any comments of the IDNR into the completion of a Post Tier 2 Corrective Action Worksheet. The intent of the worksheet is to summarize historical information, complete research regarding alternatives for risk reduction and provide recommendations regarding a course of action. Factors weighing into consideration will include pertinent party discussions, technical considerations and cost. From this information, Geode will recommend the most viable alternative for risk reduction for presentation and discussion at a Corrective Action Teleconference.

Tier 3 Work Plans and reporting may be a viable option for support of risk reduction in some cases. A conceptual idea is generally agreed upon by the groundwater professional, IUST Fund and IDNR prior to proceeding. The work plan may call for the completion of additional sampling and monitoring, receptor removal, or be combined with limited corrective actions. The Tier 3 Work Plan does not have a general format. Geode presents its information by providing a background of the site conditions, a summary of risk conditions, methods to address or support risk reduction, and contingencies for changing the plan if further support is not sufficient. Once approved, activities and methods outlined in the work plan are implemented. A report summarizing the information, comparisons to the original plan and recommendations are provided.

2.2.3 Site Monitoring Activities

Requirements for site monitoring come in several forms and are generally specific to the site and its receptors. When a site is re-established as a concern, research is necessary to determine a sampling plan which fits the goals (determination of hydrocarbon presence and concentrations) of the project. Established sites (those which have been assessed and are subject to a specific monitoring program) will follow the Tier based monitoring plan and additionally incorporate comments from the IDNR, Fund, or consultant suggestions approved by the Fund. A summary of sampling protocol for groundwater, soil and soil gas are provided in this section. While on-site, evaluation of receptor changes will be made. Contact with City personnel will be completed. Data will be input into the Tier 2 software's SMR section. Data will be evaluated for historical trends and comparison to the SSTLs and steady and declining criteria. Recommendations regarding risk changes, or changes to monitoring well locations will be provided. In the event that monitoring wells may be eliminated from the plan, discussion will be provided.

2.2.4 Corrective Action Design Development and Implementation

Corrective action design is highly dependent on site specific conditions with regard to concentrations and at risk receptors. Corrective action design development would utilize the site specific information to develop and provide the information necessary to allow the IDNR to evaluate the design. The designs may call for any number of technologies, or combinations thereof. Depending on the complexity of the design, pilot testing may be warranted for sizing of pumps, blowers and well spacing. The pilot tests may be performed using a vacuum truck or mobile remediation unit. A CADR would be constructed specific to the remediation system type. Pilot testing data and assumptions would be provided as support. The design would incorporate: system monitoring requirements (DO, vacuum, pressure, flow rates, temp., off-gas, etc.); soil and water monitoring requirements; an estimated timeline; construction, operations, maintenance and monitoring costs.

Implementation of corrective actions would occur following IDNR approval and incorporate comments provided. A minimum of three bids would be requested for any groundwork activities unless otherwise approved by the IUST Fund. In order to avoid "information overkill" and due to the unknown nature of future activities, potential groundwork contractors have not been provided in this bid. Geode has built working relationships with contractors across the state capable of performing all LUST related

activities. Information regarding the qualified low bidding sub-contractors would be forwarded to the fund for approval if not within those listed within this bid.

2.2.5 Free Product Recovery

A variety of methods could be utilized to perform free product recovery. The simplest and most cost effective method is hand bailing. Prior to physical removal of the product, the monitoring well is gauged for determination of the presence and thickness of product utilizing a device capable of distinguishing between oil and water. The oil/water probe should be cleaned with a detergent scrub prior to insertion into the well. Depth to product and depth to water are recorded to determine the difference (thickness). The probe is then removed from the well and cleaned again. A dedicated, clear bailer is then slowly lowered into the well to ensure that the product surface is minimally disturbed. The bailer should not be fully submerged in the water column. Upon removal of the bailer, thickness is remeasured and cross referenced with the probe measured amount. Completion of this task also allows for verification of working condition of the oil/water probe in the event that the probe does not detect product. Additionally, product may bubble in the probe and falsely indicate greater thickness than visually observed. Bailing continues in this manner until product is no longer observed. Product is transferred from a bucket to an on-site holding container. When the container is full, a certified waste hauler would be contacted for removal and proper disposal. Data will be recorded in the field with regard to the depth to product (if applicable), depth to water, total depth of the well, volume of water recovered and volume of free product recovered.

Other options include the use of Xitech pumps. Xitech pumps utilize a hydrophobic well screen which allows for infiltration of oils (product) only. Pressurized nitrogen is pumped into the pump through an inlet line which forces the product through the outlet hose to a surface tank. These units come in several different diameters, lengths and construction materials. Timers are utilized to provide variable pumping duration and frequency.

Product removal may also be completed through the use of groundwater pumps. This method would be utilized in high volume product locations. The water and product removed from the well is transferred from the pump to a product separator, where baffles utilize the natural density difference between the fluids to isolate product within the tank. Water is then gravity drained, or pump transferred for treatment.

2.2.6 Monitoring Well Installation, Repair and Closure

Monitoring well installation is a frequently utilized method of establishing a temporary, or semipermanent structure for the collection of groundwater samples, the collection of aquifer testing parameters (hydraulic conductivity, dissolved oxygen, static water elevations), and observation of free phase hydrocarbons. Boring completion and well construction methodology are discussed elsewhere in this section.

Monitoring well repair can be completed in many forms. A casing well may require a reduction in elevation which would be performed through the use of an internal casing cutter or cutting wheel. Upon completion of this activity, it is recommended that the well be resurveyed to a known elevation. Geode has expandable, lockable well plugs on hand for 2" wells which can be utilized to close a well which is subject to downhole infiltration. Damaged lids may be repaired using an existing lid, new bolts, or a combination of the two. Lids and manways which are damaged beyond minor repairs would be dug up, chiseled or sawed out. New manways would be placed over the well and concreted in.

Monitoring well closure is typically performed by removing the well casing from the bore using a rig mounted winch, ring and chain. Alternatively, a tractor jack (hi-lift jack) with ring and chain may be used until the well is loose and can be hand pulled. All attempts will be made for full casing removal. In

the event of a concrete well inside a concrete surface, special procedures may be required such as concrete finish above 4' in depth. In the event that the well manway is in grass, or gravel, the concrete is dug out of the ground and the manway is completely removed. Upon removal of the well, bentonite is placed in the opening and filled to near the surface. The surface is finished in a like manner to the surrounding surface.

2.2.7 Abandoned Water Well Closure

Abandoned water well closure will be performed by a Registered Water Well Contractor within the State of Iowa. Closure of these wells will be subject to guidance specific to the well type. Geode will rely on the expertise of the Water Well Contractor to perform the services within these guidelines as they will be responsible for signature and confirmation of the completion of this activity. Geode will document the activities through on-site observation and photo records.

2.2.8 Multi-Media Sampling and Analytical Testing

Soil sampling is performed via core sampling tools advanced by the drilling unit or hand auger. Field screening will be performed by the on-site scientist through evaluation of the soil cores. Soil cores will be retrieved from the: MacroCore direct push sampler; hand auger bucket; or continuous core barrel positioned within the hollow stem flight augers. Sediment type determination will be completed in boring log form by a trained scientist. The boring will be completed utilizing a truck mounted rotary hydraulic drilling, percussion (probe) unit, or hand auger. If utilizing rotary hydraulic drilling, a 6.25 to 7.25" OD hollow stem auger will be advanced in five foot increments. The hollow stem of the auger will be equipped with a split core barrel for collection and retrieval of soil cores. Each core advancement will be either lined or washed with an Alconox scrub. If utilizing the probe unit, a 2" to 3" OD tube will be driven into the ground in four to five foot increments providing a soil core in a liner tube. If utilizing a hand auger (shallow drilling situations), the 3" diameter bucket will be advanced in approximately 6 inch increments prior to retrieval.

Soil samples will be collected at 1' increments and placed in a zip type baggie for field screening utilizing an organic vapor meter (OVM). Split samples will be collected from zones of suspected impact, or resampling intervals, labeled and placed on ice in a cooler. Field screening samples will be evaluated by placing the tip of the OVM probe into the baggie, minimizing outside air to determine the maximum observed concentration of off-gas from each sample. The sample exhibiting maximum field screening results, will be submitted to the laboratory within 72 hours for analysis. In the event of redrilling for updated concentration information, the previous interval will also be submitted to the laboratory. Soil cores will be logged by a trained scientist to record soil types, structure, color, plasticity, moisture, and odor. Upon completion, the borehole will be backfilled with bentonite chips and finished near and at the surface to match current conditions unless monitoring well construction is planned, or warranted.

Groundwater sampling is performed following measurement of static water level elevations. This activity will be performed by opening all monitoring wells to allow for equilibration with atmospheric conditions and to remove any pressure or vacuum created within the wells. Upon allowing a minimum of 15 minutes for each equilibration, wells will be gauged utilizing an Alconox cleaned oil/water probe capable of emitting distinct signals for water and oil. The probe will be cleaned utilizing an Alconox bath between wells to reduce the risk of cross contamination. This is achieved by measuring the depth to water with an oil/water interface probe from the top of casing. Elevations should be surveyed to a known elevation. Depth to water is subtracted from the casing elevation to determine static water elevation. Total depth of the well is also measured. Wells will be gauged in the order of least contaminated to most contaminated based on the most recent laboratory data from each well or soil field screening comparison where previous groundwater data is not available. This action is also utilized in order to reduce the risk of cross contamination. Nitrile gloves will be worn to reduce exposure to the well fluids and dedicated per

well to reduce the risk of cross contamination. Upon completion of each individual well, the well will be capped and manway returned to position.

Using the water column height, casing volume will be calculated using pi*radius in ft (squared)*height of water column in ft*7.48 gallons/cubic foot. The general approximation of this volume is 0.485 gallons per foot of water column for a 2" well. Following purging of all on site wells, the initial well will be gauged for recharge. If recharge has occurred, the well will be sampled. If not, more time will be allowed. Pre-determination or estimates of time may be available based on previously calculated hydraulic conductivities, soil types, or previous purging. Unless time constraints do not allow, a goal of at least 90% recovery will be applied.

Sampling will be completed utilizing the dedicated bailer. The bailer will be lowered into the water column and retrieved. The initial bailer of water will be discarded and a second bailer of water will be retrieved for sampling purposes. Water from each well will be placed in three-40ml vials. Additional volume will be placed in an amber quart jar, or 250 ml plastic jar (laboratory dependent) if OA2 analysis is required. Samples will be poured from the top of the bailer to minimize fines which may settle within the bailer. In the event free product is present, fluids will be dispensed from the base of the bailer through the manufacturer supplied tube which dislodges the stop valve ball after wiping the exterior clean. Samples from each well will be labeled, stored on ice in a cooler immediately and recorded on a chain of custody. Samples will be forwarded to the laboratory within 72 hours for analysis using Iowa Methods OA1-GCMS and OA2 (as necessary).

Plastic water line (receptor sampling) is a potential occurrence. Based on business use, strict adherence to the EPA VOC Permeation of Plastic Pipe documentation is not likely. Geode would plan to perform water line sampling by first identifying the layout of the pipes, line diameter and distance to the suspected "heart", or nearest position of the groundwater plume. Sampling would occur immediately following opening of business prior to any water use to ensure minimization of mixing and maximum contact with potentially contaminated water lines. If possible, samples would be collected prior to any water softening or treatment devices. Nitrile gloves would be worn to reduce the risk of cross contamination. The tap source would be cleaned of any debris or impurities which may affect the outcome of the analyses. Purging of the line would occur based on the pi*radius squared*length of line to heart of plume*7.48 gallons per cubic foot. Water would then be allowed to fill three-40 ml acid preserved vials and a quart jar if necessary for OA2 analysis. Samples would be labeled and placed in a cooler on ice. Samples would be forwarded to the laboratory within 72 hours for analysis using Iowa Method OA1-GCMS and OA2 (as necessary).

Water well (receptor sampling) is a potential occurrence. The most appropriate sample would be obtained from the initial discharge of the well in order to minimize mixing of clean water from surrounding piping. Water well usage is pertinent in determination of additional withdrawal volume prior to sampling based on casing volumes. If the well is stagnant, three casing volumes would be removed at a minimum. If the well is high use, samples may be obtained following line purging. Samples would be placed three-40 ml acid preserved vials and the quart jar. Samples would be labeled and placed in a cooler on ice. Samples would be forwarded to the laboratory within 72 hours for analysis using Iowa Method OA1-GCMS and OA2 (as necessary).

Soil gas well installation would be completed through the use of a 3" diameter hand auger or small diameter direct push. The hand auger would be advanced to the greatest depth of the receptor (sewers, basements) or within 1 foot of the water table (media dependent). A 1" threaded PVC well will be installed utilizing an end cap, 1' section of 0.01" slotted screen, and riser. The annular space would be filled with 18" of sand around the well screen to allow for the inflow of vapor. The remaining annular would be filled with hydrated bentonite to a depth of 1' below grade. The upper 1' would be sand packed

and completed with a bolt down steel manway access. Following completion, the top of the well would be covered tightly with plastic wrap and sealed with a rubber band.

Soil gas sampling is performed following measurement of the static water elevation or depth in the nearest adjacent well or wells. The soil gas well itself is then gauged for the presence of water. If dry, the well is resealed and allowed to equilibrate to required times corresponding to the diameter of the bore, as described in the Tier 1 and Tier 2 guidance. Sampling would occur through the use of a laboratory supplied air pump. Tubing attached to the sampling pump would puncture the plastic wrap and be lowered into the well to a depth of 6" above the base of the well. The end of the tubing inserted into the well would be equipped with a charcoal sampling tube. The pump would run for 4 minutes at 50ml/min flow rate to allow for total flow of 200 ml through the charcoal tube. Upon completion, the tubing would be removed from the well, immediately capped and labeled. The sampled would be submitted to the laboratory for analysis using NIOSH Method 1501. The well would then be capped with a 1" PVC cap. If confirmation sampling, or monitoring, of this location is required in the future, the cap would be removed and new plastic wrap would be placed on the well. The appropriate stabilization period would again be applied.

In the event that sandy soils or greater depths prohibit the use of a hand auger as a drilling method, alternate methods and diameters may be utilized. Solid flight augers of small diameter (3" to 4") could be utilized in cases where non-caving soils are present, but greater depth is required. Hollow stem augers (6.25") would be utilized where caving soils are present. This method allows for construction of the well and filter pack within the auger stem to prohibit caving of the soils onto the well. Regardless of bore diameter, well construction would not change. Stabilization periods would be dependent on bore diameter.

2.2.9 Petroleum Release 'Forensic' Analyses

The use of forensic analyses can be a useful tool in the determination of product type and age. Geode has not formally adopted a protocol for collection of forensic samples as it should be detailed on a case by case basis pending the goals and objectives of the specific project. The laboratory required for such analyses should also be determined based on these goals. In the event that an unlisted laboratory is best suited to provide the information required, the laboratory will be detailed in the budget. The laboratory will also be responsible for providing collection protocol to Geode.

2.2.10 Records Searches

Record searches will be a primary objective for initial scope development for the project. This would include Iowa UST-LUST database research of the subject and potentially surrounding properties performed in office. File research of the applicable UST Registration files and LUST files would be a requirement. Research of these files would be performed at the IDNR office in Des Moines, IA. Alternately, digital copies will be requested through the IDNR Records Section. Thorough research of these files would be utilized to glean pertinent information regarding historical concentrations, aquifer parameters, and known receptors. Additional resources can be utilized for historical purposes such as Sanborn Fire Insurance Maps (State Historical Society) and aerial photography (TerraServer, Iowa Geographic Map Server, USDA). Deeds and abstracts, as well as the R.L. Polk City Directory are also useful resources for historical presence and duration of fuel distribution. Finally, City and County information would be obtained regarding pertinent receptors, property dimensions, zoning, building permits and ownership.

3. Vendor Background Information

3.1 General Background Information

Geode Environmental, LLC is comprised of a single employee, with access to, and positive business relationships built with numerous sub-contractors. Geode operates under no d/b/a's, assumed

names, or other operating names. The following general information applies to Geode Environmental, LLC:

Geode Environmental, LLC	2
: P.O. Box 845	
Johnston, IA 50131	
s: 6408 Harbor Oaks Drive	
Johnston, IA 50131	
515-309-2183	
515-309-2183	
515-975-9026	
RWidder@Geode-Env.com	
s : :	Geode Environmental, LLC s: P.O. Box 845 Johnston, IA 50131 ss: 6408 Harbor Oaks Drive Johnston, IA 50131 515-309-2183 515-309-2183 515-975-9026 RWidder@Geode-Env.com

Geode Environmental, LLC is a sole proprietorship Limited Liability Company as registered with the State of Iowa. Geode Environmental, LLC was registered on April 3, 2006. Geode is registered to do business within the State of Iowa.

Registered Agent:	Raymond Widder	
	6408 Harbor Oaks Drive	
	Johnston, IA 50131	

Geode performs work as an Environmental Consulting firm. We currently have no other offices outside of that listed above. As Geode is a sole proprietorship, contact information listed above is applicable to all contractual and technical matters concerning the proposal. Additionally, the information listed above is also applicable to scheduling and other arrangements.

3.2 Subcontractor Information

Although requested under the general heading of Vendor Background Information (Section 3.2.5.9 of the RFP) this information has been provided elsewhere in the document and is referenced here to avoid duplication. Subcontractor information is also requested under Section 3.2.7.5 of the RFP. As such, the information can be found within related Section 6 of this proposal. Further outline of qualification of subcontractors of significant involvement are provided within Section V.

3.3 Accounting Firm

Geode completes general day to day accounting internally. This includes vendor accounts payable and invoices to clients (accounts receivable). Quarterly and annual personal taxes are outsourced and are currently being completed by:

Tarbell & Co., P.L.C. 2130 Grand Avenue Des Moines, IA 50312 Ph: 515-282-0200

4. Experience

4.1 Experience

Resumes detailing the experience and qualifications has been provided as Attachment 5. Past project responsibilities are indicated on the resume. Mr. Widder's employment history corresponds with the growth and development of the Iowa Underground Storage Tank program. As site checks were being instituted to determine pre-existing conditions at UST sites, Mr. Widder was in the field on a daily basis providing the first soil borings and monitoring wells at many properties as the original deadline was extended from October 1990 to February 1991. Upon completion of the drilling, site check reports were

completed and forwarded to the IDNR, IUST and the clients. Subsequently, Mr. Widder completed Site Assessment Report work plans and Site Assessment Reports until regulations were instituted requiring the completion of a more risk oriented characterization using the Site Cleanup Report. His history includes sampling, field work and preparation of Site Monitoring Reports through both the SCR and RBCA phases. He was in the field assisting remediation technicians with plumbing installation and repairs. During the latter part of the SCR process and throughout the RBCA process, Mr. Widder was involved in the preparation of Corrective Action designs utilizing risk appropriate methodologies to assist in meeting the goals set forth by the State of Iowa.

Mr. Widder returned to school to attended graduate classes at Iowa State University in 1994 while maintaining a full time work load. His educational pursuits focused on increasing his knowledge of contaminant transport, chemistry and remediation for job improvement.

Mr. Widder has also played a role in several committees for the betterment of the process. These include: the DNR's 2004 Kaizen Process Improvement event which ultimately resulted in expediting risk reclassification of High Risk sites; the DNR's 2005 Kaizen Process Improvement event focused on technical review of RBCA documents; and the Software Implementation Committee as a representative of the Environmental Professionals of Iowa, which ultimately provided an adapted and more accurate Tier 2 software model.

The groundwater professional has provided numerous reports under his signature through the history of his employment. Projects specifically managed by the groundwater professional were generally on time. Occasions did present themselves that the project schedule could not be held due to numerous circumstances ranging from delay in contract signature to additional field work requirements to unanticipated public entity delays. When applicable, the groundwater professional always used judgment regarding the duration of the delay, and its effects on the overall risk to human health, in contacting the IDNR regarding requests for extended time. All efforts were made to prepare an accurate assessment of the subject investigation in a reasonable time period.

Geode Environmental has been in business since April 3, 2006 (9.5 years). The key personnel on the project has completed 25 years of dedicated service to the clients, regulators and administrators within the UST community, other private business owners and lending institutions. All years of experience are directly related to the proposed tasks.

Geode Environmental's key personnel have a high level of directly related technical experience exhibited through a 25 year history with the Iowa LUST program. The number of years of experience and the volume of projects covered during that history are likely unmatched by personnel represented within other firms. The volume of investigations managed, or under the guidance of, the key personnel has allowed for experience of a wide variety of circumstances which may be presented during any investigation. Key personnel have completed numerous Tier 1 and Tier 2 documents, and more importantly, provided guidance to former staff members to assist in providing the most reasonable solutions to technical issues. Review of these document types was performed by the key personnel to maintain adherence to the IDNR requirements. Key personnel have also completed a number of corrective action designs focusing on the implementation of in-situ solutions to remove, or destroy, contamination in the subsurface. Designs have included high vacuum extraction, soil vapor extraction, air sparging, overexcavation and chemical injection. Finally, personnel have been involved as a subcontractor for review of LUST related documents through contracts with the IDNR. This project relies on the expertise of personnel regarding investigatory protocol and compliance to reporting requirements.

Geode is capable of completing all phases of LUST work. Key personnel on the project are field experienced with LUST investigations, sampling methodology, and knowledge of guidance documents.

Recent and related experience information is supplied in Section 4.4. Proposed relationships between the key personnel and support staff/subcontractors are supplied in Section 5.5 and Table 1. Information regarding the firm's experience related to previous Board projects is supplied in Section 4.4, specifically Contract #1 and #2.

The geographic location of Geode's facilities for personnel is listed in Section 5.2. Sampling, detection and other technical equipment maintained by Geode, or available on short notice is provided in Section 5.3. Additional resources in the form of sub-contractors for the project are listed in Section 6.

At the start of 2016, Geode Environmental will have a total of 8 active projects. Geode Environmental serves as a subcontractor for other firms when work arises. Direct contracts with Geode are considered top priority, which is understood by those contracting our services. Currently, Geode provides sub-contract services of less than 2 hours per week.

Key personnel from Geode Environmental also serve as a part-time employee for Environmental Compliance Services, Inc. (Woodstock, GA Branch). Direct contracts with Geode are considered top priority for key personnel, which is understood by Environmental Compliance Services, Inc. Currently, key personnel provide hourly labor to Environmental Compliance Services, Inc. on an average of less than 3.5 hours per week.

4.2 List of Similar Services

Geode's history is filled with services similar to those outlined within the RFP. We have dedicated our company to the performance of services directly related and outlined within the RFP. This list includes, but is not limited to, the following:

- RBCA Tier 1 Reporting
- RBCA Tier 2 Reporting including pathway evaluation of the 7 primary pathways and multiple receptor types therein.
- Site Monitoring and Associated Reports including groundwater, soil gas and soil sampling.
- Free Product Monitoring, Recovery and Reporting
- Receptor Surveys of basements, sewers, confined spaces and nearby utility conduits
- Oversight, logging, field screening and soil sampling of Soil Borings
- Oversight, screen depth specification of Monitoring Wells.
- Collection of groundwater samples from existing monitoring wells. This includes gauging water levels, purging, and purge calculations.
- Plugging of monitoring wells under the direction and supervision of a Registered Water Well Contractor
- Sampling of water lines and water wells including purge calculations.
- Oversight, screen depth specification, logging for the installation of Soil Gas Points.
- Soil gas sampling including operation Buck Sampling Pump and determination of stabilization times.
- Hydraulic conductivity testing of the aquifer including data reduction and software solutions.

4.3 Letters of Reference

Letters of reference have been compiled from 3 sources. These sources focus on other environmental firms who have utilized Geode's services. The intent of this type of source is that we believe that there is no one better, or more knowledgeable, regarding these activities than those within the industry. These sources know how the investigations are performed, and the contents which should be provided within reports. These letters of reference can be found in Attachment 4.

4.4 Reference Projects

The provided reference project focus on IUST or IDNR lead contracts. We find these contracts to be most similar to that listed in the RFP. Contract #2 below is most relevant as it pertains to the predecessor to this RFP. Activities performed would therefore be expected to be identical to those anticipated. Contract #3 varies from the common requirements. Information regarding this contract has been included to reference knowledge of rules and regulations associated with the RBCA program. Review of documents completed by other consultants allows us to gain further knowledge of site differences, adaptability and awareness of nuances which can affect both the physical investigation and completion of the reports.

Contract #1:	CRPCA 0612-39: Galva (now referenced as Galva Union Elevator)
	Galva Union Elevator/Double Circle Farm Service
	100 West and 100 East First Street
	Galva, Iowa
	Registration #'s 8601976/8601323, LUST #'s 7LTT57/8LTM76
Client Name:	Iowa Underground Storage Tank Fund Board (now Galva Union Elevator)
Contact:	James Gastineau, Deputy Administrator (now Matt Wittrock)
Telephone:	515-440-7016 (now 712-225-5400)
-	

Key Personnel: Ray Widder

Subcontractors: Array Environmental, Inc., Keystone Laboratories, American Backhoe Company, Inc., Seneca Environmental Services, Inc.

Description of Services:

The project was released as an RFP in 2007, with Geode being awarded based on the combination of technical and cost scores. Water sampling was completed to update site data. Data was then utilized to further develop the scope of services and complete a Tier 2 report. Monthly free product was completed over a period of years. Annual Site Monitoring was performed. A remediation system was designed, constructed, installed and then operated for a period of 1.5 years. Shut-down occurred at this time period to allow for follow up before termination of the contract with the IUST Fund. Results for groundwater were below SSTLs. Soil results showed 90%+ reduction. However, this required additional treatment. Geode contracted directly thereafter. The system operated for a 6 month period and has been shut down. Budget Performance:

The project followed budgetary line items as introduced in response to the RFP despite rises in costs associated with the activities, primarily mobilization. Minor change orders were requested on an as needed basis to repair well structures, change the free product monitoring plan, collect additional information. Funding was secured for all activities and no additional charges were applied. Invoicing totals are not available due to an accounting system change after 2010. Invoices were submitted monthly with status reports. A total of \$18,291 has been charged to Galva Union Elevator. Schedule Performance:

Geode has met demands of scheduled activities and is currently awaiting groundwater results from the second post shut-down monitoring event to determine if confirmation soil samples can be taken.

Contract #2:	RBCA 0908-01: Environmental Support Services
	Multiple locations
	Registration #'s Multiple, LUST #'s Multiple
Client Name:	Iowa Underground Storage Tank Fund Board
Contact:	James Gastineau, Deputy Administrator
Telephone:	515-440-7016
Key Personnel:	Ray Widder
Subcontractors:	Array Environmental, Inc.; Forest Road Consulting, Inc.; FireHawk Seeds, LLC;
Keystone Labor	atories, Inc.; TestAmerica, Inc.; JRS Excavating
Description of S	Services:

The project was released as an RFP in 2009, with Geode being awarded 1 of 2 contracts based on the combination of technical and cost scores. To date, a total of 17 sites have been released to Geode. The scope of services have ranged from water sampling a single location to water line replacement. Water sampling was completed to update site data. The most common services have been the completion of RBCA Tier 2 investigations with an approximate total of 5 monitoring wells. Rather than reiterate actual tasks, we note that items listed in Section 4.2 have all been completed within this contract. Of the 17 sites, a total of 9 have been closed. Two other sites have been redistributed as newer releases and subject to separate funding requirements. On-going monitoring is required at 4 sites (one of which is now only 10% funded by IUST). The final 2 sites await assessment and may close prior to the end of the contract. Budget Performance:

To date, a total budget of \$312,155 has been requested (\$205K Assessment, \$107K Corrective Action). Invoices have totaled \$192,883. We anticipate at completion, the project will be \$23K under budget. Schedule Performance:

Geode has met demands of scheduled activities. To date, no specific target submittal dates have been provided with the exception of the final two reports which are in progress. Geode believes that adequate service has been provided and reports are being submitted on a timely basis. It is Geode's business policy to not invoice until major milestones have been met. Therefore, completion of tasks in a timely manner, without sacrificing quality, are of the utmost importance.

Contract #3:	Subcontract to ESD7512KAnder110133
	Multiple site locations, work activities completed in the office
	Registration #'s Multiple, LUST #'s Multiple
Client Name:	McFadden Environmental, Inc.

Contact: Ken McFadden

Telephone: 515-986-1755

Key Personnel: Ray Widder

Subcontractors: None

Description of Services:

The project was released as an RFP in 2010, with McFadden being awarded based on the combination of technical and cost scores. Geode was included in the proposal to be used as secondary personnel for the performance of the contract. Services revolve around the completion of technical review of all forms of reports related to LUST investigations. Technical reviews follow IDNR formatted checklists. While checklists are available, these do not touch the intricacies of individual line items involved in the review. Superior knowledge of the guidance documents and software are required. Deliverables include the completed checklists, notes, and a draft letter to the consultant.

Budget Performance:

Geode does not control the budget for this project. However, there is an annual cap which has not been exceeded without allowable increases. Geode is assigned tasks at standard unit rates dependent on the type of document reviewed. To date, Geode has invoiced \$127,442 over a nearly 5 year period. Schedule Performance:

Geode has not missed internal deadlines for submission of the deliverables to McFadden Environmental, Inc.

5. Personnel & Equipment

5.1 Personnel

A resume for the key personnel working on the project, Ray Widder, is found in Attachment 5. Mr. Widder will serve as the project manager and is recognized by the State of Iowa as Certified Groundwater Professional #1624. Mr. Widder will supervise all aspects of the project. Mr. Widder has over 25 years experience serving the environmental community. This experience is nearly all directly related to USTs and Leaking UST sites. For nearly the past 6 years, Geode has served a contract of a very similar nature (RBCA 0908-01) which therefore directly relates to the specifications of the RFP. Additionally, sites outside the similar contract also directly relate.

A second resume for Jerrod Robinson of FireHawk Seeds, LLC has also been included in Attachment 5. Mr. Robinson will supply support services when project scheduling conflicts, or multiple due dates arise. Mr. Robinson has roughly 19 years of experience in environmental related industries. This includes fieldwork, drilling, reporting and compliance.

An Organizational Chart has been included with this document as Table 1. The key personnel will handle available tasks such as reporting and field services. Subcontracted services will be utilized to complete analytical services, drilling services, and when necessary, some field and reporting services.

Geode has evaluated historical business charts and determined that its annual working hours accounted for 61% of an available work year during 2014. This figure includes a similar contract (RBCA 0908-01). This indicates that significant time allotment is available for dedication to this project.

As an integral part of this bid, Geode requires the assistance of outside sources to ensure that projects are completed efficiently, and cost effectively. Although significant availability exists, times may arise where Geode personnel are unavailable to complete reports or field work of multiple projects simultaneously. Due to the unknown project quantity inherent in a bid of this nature, the possibility and frequency of overlapping projects cannot be known at this time. FireHawk will act as a backup for completion of field work and reports on an as needed basis. It is currently estimated that FireHawk's project contribution will be 10-40% of field work and 0-5% of report writing.

Mr. Robinson's (FireHawk) employment history also corresponds with the growth and development of the Iowa Underground Storage Tank program. Mr. Robinson started as field staff and drilling support and is versed in drilling and sampling methods. He worked as the drilling and field coordinator for many years, including ownership of a drilling firm for 7 years. Upon completion of the drilling, site assessment reports were completed and forwarded to the IDNR, IUST and the clients. Mr. Robinson completed Site Assessment Report work plans and Site Assessment Reports until regulations were instituted requiring the completion of a more risk oriented characterization using the Site Cleanup Report. This included working with on larger scale Community Remediation Projects (CRP). His history includes sampling, field work and preparation of Site Monitoring Reports through both the SCR and RBCA phases. Mr. Robinson is versed in inspection and workings of UST systems.

Other sub-contractors may fill in for completion of field tasks. It is anticipated that both Array Environmental and Forest Road Consulting will complete between 0 and 10% of field associated with the project. Array's available field staff includes 3 personnel of 21, 16 and 13 years direct experience in LUST investigations. The two of longer duration both hold MS degrees. Forest Road Consulting consists of a single field staff with 29 years of experience in geological sciences and 25 years in direct Iowa LUST experience.

Table of Organization-Overall Operations Geode Environmental, LLC Figure 1



Table of Organization-Overall Operations Geode Environmental, LLC Table 1



Table of Organization-RFP 1509-01 Geode Environmental, LLC Table 2



All non-hand augered drilling will be completed by sub-contractors. Saberprobe LLC of Omaha will be the primary drilling firm. It is estimated that Saberprobe will account for 70 to 80% of all drilling. The remaining drilling will be performed by Impact 7G and Rewerts Well Company in Central and Western Iowa which will account for 0 to 15% of drilling and Forest Road Consulting in Eastern Iowa (10 to 20%). Saberprobe LLC has been in the drilling business for 14 years. Personnel at Saberprobe have been completing drilling and LUST environmental services in Iowa for 20 years. Rewerts Well Company have been in the drilling business for 26+ years and completing LUST drilling for 21+ years. Array personnel have completing field work in a drilling supervisory role for up to 21 years. Forest Road personnel have been drilling for 11 years and completed work in a drilling supervisory role for 25 years.

All laboratory services will be sub-contracted to Iowa UST Certified laboratories. Keystone Laboratories of Newton in Central Iowa will be the primary laboratory and should account for 70 to 90% of laboratory services. Activities performed in Northeast or Eastern Iowa may be shipped or delivered to Test America (10 to 30%). Keystone Laboratories have been in business for 25 years and completed Iowa LUST work for 25 years. Test America have been in business for 46 years and completed Iowa LUST work for over 26 years.

Due to the Geode being comprised of a single employee, key personnel cannot, and will not, be substituted. If the key personnel become unavailable for the project, the Administrator would be notified immediately.

5.2 Geographic Location

Geode Environmental, LLC is an Iowa based company with its office located in Johnston, Iowa. Johnston, Iowa is a suburb of Des Moines, Iowa which is centrally located within the state, providing a good location for reduced mobilization across the State.

Secondary personnel (FireHawk Seeds, LLC) are also located within the Des Moines metropolitan area. Geode has also developed this proposal with sub-contracting firms in mind which are aptly located for activities in Eastern and Western Iowa on an as needed basis.

Mailing correspondence is directed to: P.O. Box 845 Johnston, IA 50131

The physical address of the Geode office is: 6408 Harbor Oaks Drive Johnston, IA 50131

Geode maintains around the clock commitment to meeting the demands of this, and every project. The main facility consists of dedicated office space, attached equipment storage and detached equipment and materials storage.

5.3 Equipment

As a growing company, Geode Environmental limits its equipment overhead. Primary items required for day to day field activities, as determined through years of experience, are immediately on hand. This includes the following:

Solinst Model 122 Oil/Water Interface Probe Solinst Model 101 Water Interface Probe Thermo 580B Organic Vapor Meter Q Rae Systems QRae II 4 Gas Meter Spectra Precision Laser LL300 Surveying Set ProActive Mini-Typhoon Pump Schonstedt GA-52Cx Magnetic Locator YSI Environmental EcoSense DO200A Dissolved Oxygen Meter Solinst 3001 Levelogger Jr. Datalogger Dedicated Field Laptop Personal Computer AMS 3" OD hand auger Sample jars and vials Coolers Assorted necessary hand tools (ie buckets, socket wrenches, shovels) Bailers, String and Nitrile Gloves Vacuum Gauges Thermometer

Through the use of rental or supply agencies, the following equipment is available for overnight delivery or same day pick-up:

Monitoring Well Materials Soil Gas Sampling Pump

Through the use of subcontractors, all necessary equipment to complete the following services is readily available:

Drilling including a GeoProbe™ 6620 with rotary hydraulic capability, CME 55, CME 45, Simco, AMS 9600E probe rig with rotary hydraulic capability Monitoring Well Installation including auger diameters from 3" solid to 12.25" OD hollow stem Laboratory Analytical Services Waste Removal including 26" Hg 3,000 gallon capacity Excavation and Trenching

6. Subcontractors

As Geode Environmental is a single entity business, the use of subcontractors is necessary for the completion of most environmental projects. The primary areas of business operation can be outlined by the 4 categories presented within the Table of Organization Chart provided as Table 1 and 2. These consist of Field Services, Drilling Services, Laboratory Services and Reporting Services. Within each category, the order is listed with the preferred vendor at the top. Determination of the vendor of choice will be based on timeliness, quality, geographic location and cost.

Geode Environmental generally completes all reporting services without the use of subcontractors. Depending on workloads, and to further support the ability to meet reporting deadlines, Geode has enlisted the assistance of FireHawk Seeds, LLC. Overflow reporting will be directed to FireHawk Seeds. Geode would like to state that during the existence of our company, the Key Personnel

has completed all reports. Rarely, minor reporting tasks (such as boring logs) have been sub-contracted. All sub-contracted items are reviewed by Key Personnel.

General field services are primarily provided by Geode personnel whenever possible. Depending on workloads, scheduling ability, cost requirements, Geode may utilize one of three subcontractors to complete field tasks. If scheduling conflicts arise, FireHawk Seeds will be utilized. In the event that more limited, or quicker, turnaround is required, Array Environmental is available for West Iowa needs and Forest Road Consulting is available for East Iowa needs.

All drilling services are subcontracted due to high equipment overhead and storage issues. Saberprobe LLC will be utilized pending cost. Proximity is frequently a driving factor in drilling prices. All laboratory services are subcontracted due to high overhead and greater outside expertise. All laboratories are Iowa UST certified. Keystone will be the laboratory of choice. Test America would be utilized in some cases for proximity and ease of delivery purposes.

Field Services

FireHawk Seeds, LLC 2414 Birch Street Granger, IA 50109

Array Environmental, Inc. 27304 State Street Valley, NE 68064

Forest Road Consulting 1826 Rockingham Road Davenport, IA 52802

Drilling Services

Saberprobe LLC 14506 Schram Road Omaha, NE 68138

Impact 7G PO Box 8 Panora, IA 50216

Rewerts Well Company 742 West 18th Street Nevada, IA 50201

Forest Road Consulting 1826 Rockingham Road Davenport, IA 52802

7. Financial Information

The following is a list of the requested 3 financial references. The listing of our bank as a reference is provided to indicate continued positive cash reserves, and if necessary, borrowing ability. This has not been necessary during Geode's existence. The remaining two references are vendors, which are utilized to indicate the consistency of payment to sub-contractors. We find the latter type (vendor) most relevant to this project type due to the frequency of use.

<u>Reporting Services</u> FireHawk Seeds, LLC 2414 Birch Street Granger, IA 50109

Laboratory Services

Keystone Laboratories, Inc. 600 East 17th Street South Newton, IA 50208

Test America, Inc. 704 Enterprise Drive Cedar Falls, IA 50613



Community State Bank 817 N. Ankeny Blvd. Ankeny, IA 50023 Ph: 515-331-3100

Array Environmental, Inc. (drilling sub-contractor) 27304 State Street Valley, NE 68064 Ph: 402-359-2233

Keystone Laboratories, Inc. 600 E. 17th Street S. Newton, IA 50208 Ph: 641-792-8451

8. Termination, Litigation, Debarment

During the past five (5) years, Geode Environmental has not had a contract for services terminated for any reason. During the past five (5) years, no order, judgment or decree of any Federal or State authority barring, suspending or otherwise limiting the right of the Contractor to engage in any business, practice or activity has occurred.

During the past five (5) years, there has been no pending or threatened litigation, administrative or regulatory proceedings, or similar matters that could affect the ability of Geode Environmental to perform the required services. The owner/officer/sole employee has never been convicted of a felony. If awarded the contract, any such matter occurring following award would be disclosed in a timely manner in a written statement to the board.

Due to the absence of described circumstances listed above, descriptions associated with these conditions cannot be provided.

9. Acceptance of Terms and Conditions

Geode Environmental generally accepts the terms and conditions of the RFP and General Terms and Conditions. An exception exists for Section 6.3.G on page 26 of the RFP. The reason for this exception is based solely on the conditions of the related industry, and the financial affect that this condition may create. The environmental industry as it relates to the UST field is currently dwindling. Funding sunsets are outlined for the near future and certainly expected within the duration of the contract extensions. It is our experience that the number of sites related to this project will be minimal. The RFP and General Terms and Conditions state no guarantee to the assignment, or number, of projects. This indicates that any additional expenses, outside of performance related costs, may never be re-couped. Our experience shows the predecessor to this project (RBCA 0908-01) indicated a declining number of new project assignments over time.

While insurance as a whole should be required, and is required by Section 6.3.A-F, sub-section G relates solely to "excess" liability. Unfortunately, this "excess" nearly doubles annual premiums for small firms. Therefore, we find this to be an unneeded application of expenditures. Geode maintains insurance meeting other requirements. Additionally, the types of projects within this RFP generally fail to open the Board or State to liabilities exceeding the general insurance requirements outlined in Section 6.3.A-F on page 25 of the RFP.

Our proposed alternative is to strike (or remove) the information presented in Section 6.3.G, and any other references to umbrella policy from the contract.

6.3.G Umbrella or excess liability insurance with limits of \$1,000,000 per occurrence/aggregate, which will apply excess of the limits specified for the coverages in paragraphs B, C & D above.

We do not find that this change materially alters the RFP. This change does not affect the performance of the contractor(s), or completion of the contract. Geode would not choose to submit its own terms and conditions and prefers the institution of this recommendation.

10. Certification Letter

Geode Environmental, LLC has provided certification, in writing, that the bid proposal has been developed independently. This information can be found as Attachment #1. With the exception of cost procurement and verbal agreement of participation for sub-contractor services, Geode Environmental, LLC has prepared this document in a completely independent manner. Costs for, and the use of the same, sub-contractor services are available to any other entity with no restriction on competition for their services. The proposals have been supplied without contact with the Board beyond questions submitted in writing during the allotted time period. It is understood that as part of this process, the Board may disqualify the bid, or terminate future contracts in the event that occurrences of this nature are noted. Geode Environmental, LLC welcomes competition in the bid process as a method of improving product quality and pricing.

Geode Environmental, LLC has provided written certification that it is not presently debarred, suspended, proposed for debarrent, declared ineligible, or voluntarily excluded from covered transactions by any Federal Board or Board. This information has been included as Attachment #1.

Geode is aware that this certification is to be relied upon by the Board as part of the evaluation process. Certification provided in the referenced document was signed and represents factual information. It is understood that misrepresentation of this information would provide purpose for action by the Board to pursue available remedies.

11. Authorization to Release Information

Geode Environmental, LLC has provided written authorization to release information. This item is included as Attachment # 2. Geode Environmental, LLC welcomes the Board to review its past performance on other contracts, agreements or other business arrangements, its business reputation and any other pertinent matter. It is understood that information supplied by others may negatively affect the opportunity to secure the project.

12. Firm Proposal Terms

Geode Environmental, LLC has reviewed documents associated with Request for Proposal Number RBCA 1509-01: Environmental Support Services including the Request itself. The scope of services described in any, and all, sections of this response, including price, will remain firm for a period of 120 days following the deadline for submitting proposals. Based on the deadline for submittals, the availability and cost of services expires end of business day Wednesday February 24, 2016. Indications provided herein serve as Geode's written guarantee to the information provided.

Please refer to Section 2 for a more specific listing of services provided. Costs for said services, as well as unit costs for services outside the base agreement can be found under separate cover with the Cost Proposal.

Attachment 1 Certification Letter



Attachment # 1 Certification Letter

Alterations to this document are prohibited, see section 2.12.14.

October 27, 2015

James Gastineau, Issuing Officer Iowa Underground Storage Tank Fund Program 2700 Westown Parkway, Suite 320 West Des Moines, IA 50266

Re: RFP 1509-01: Environmental Support Services - PROPOSAL CERTIFICATIONS

Dear Mr. Gastineau:

I certify that the contents of the Proposal submitted on behalf of **Geode Environmental**, **LLC** (Contractor) in response to **Iowa Underground Storage Tank Fund** for RFP 1509-01 for Environmental Support Services are true and accurate. I also certify that Contractor has not knowingly made any false statements in its Proposal.

Certification of Independence

I certify that I am a representative of Contractor expressly authorized to make the following certifications in behalf of Contractor. By submitting a Proposal in response to the RFP, I certify in behalf of the Contractor the following:

- 1. The Proposal has been developed independently, without consultation, communication or agreement with any employee or consultant to the Board or with any person serving as a member of the evaluation committee.
- 2. The Proposal has been developed independently, without consultation, communication or agreement with any other contractor or parties for the purpose of restricting competition.
- 3. Unless otherwise required by law, the information found in the Proposal has not been and will not be knowingly disclosed, directly or indirectly prior to Board's issuance of the Notice of Intent to Award the contract.
- 4. No attempt has been made or will be made by Contractor to induce any other contractor to submit or not to submit a Proposal for the purpose of restricting competition.
- 5. No relationship exists or will exist during the contract period between Contractor and the Board or any other State Board that interferes with fair competition or constitutes a conflict of interest.

Certification Regarding Debarment

6. I certify that, to the best of my knowledge, neither Contractor nor any of its principals: (a) are presently or have been debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by a Federal Board or State Board; (b) have within a three year period preceding this Proposal been convicted of, or had a civil judgment rendered against them for commission of fraud, a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction, violation of antitrust statutes; commission of embezzlement, theft, forgery, falsification or destruction of records, making false statements, or receiving stolen property; (c) are presently indicted for or criminally or civilly charged by a government entity (federal, state, or local) with the commission of any of the offenses enumerated in (b) of this certification; and (d) have not within a three year period preceding this Proposal had one or more public transactions (federal, state, or local) terminated for cause.

This certification is a material representation of fact upon which the Board has relied upon when this transaction was entered into. If it is later determined that Contractor knowingly rendered an erroneous certification, in addition to other remedies available, the Board may pursue available remedies including suspension, debarment, or termination of the contract.

Certification Regarding Registration, Collection, and Remission of Sales and Use Tax

7. Pursuant to *Iowa Code sections 423.2(10) and 423.5(8) (2011)* a retailer in Iowa or a retailer maintaining a business in Iowa that enters into a contract with a state Board must register, collect, and remit Iowa sales tax and Iowa use tax levied under *Iowa Code chapter 423* on all sales of tangible personal property and enumerated services. The Act also requires Contractors to certify their compliance with sales tax registration, collection, and remission requirements and provides potential consequences if the certification is false or fraudulent.

By submitting a Proposal in response to the (RFP), the Contractor certifies the following: (check the applicable box)

- Contractor is registered with the Iowa Department of Revenue, collects, and remits Iowa sales and use taxes as required by *Iowa Code Chapter 432*; or
- □ Contractor is not a "retailer" or a "retailer maintaining a place of business in this state" as those terms are defined in *Iowa Code subsections 423.1(42) and (43)*.

Contractor also acknowledges that the Board may declare the Contractor's Proposal or resulting contract void if the above certification is false. The Contractor also understands that fraudulent certification may result in the Board or its representative filing for damages for breach of contract in additional to other remedies available to Board.

Sincerely,

Il , Ouner [Name and Title]

Attachment 2 Authorization to Release Information Letter



Attachment #2

Authorization to Release Information Letter ENVIRONMENTA

Alterations to this document are prohibited, see section 2.14.15.

October 27, 2015

James Gastineau, Issuing Officer Iowa Underground Storage Tank Fund Program 2700 Westown Parkway, Suite 320 West Des Moines, IA 50266

Re: RFP 1509-01: Environmental Support Services - AUTHORIZATION TO RELEASE INFORMATION

Dear Mr. Gastineau:

Geode Environmental, LLC (Contractor) hereby authorizes the **Iowa Underground Storage Tank Fund** ("Board") or a member of the Evaluation Committee to obtain information regarding its performance on other contracts, agreements or other business arrangements, its business reputation, and any other matter pertinent to evaluation and the selection of a successful Contractor in response to **RFP 1509-01: Environmental Support Services.**

The Contractor acknowledges that it may not agree with the information and opinions given by such person or entity in response to a reference request. The Contractor acknowledges that the information and opinions given by such person or entity may hurt its chances to receive contract awards from the State or may otherwise hurt its reputation or operations. The Contractor is willing to take that risk.

The Contractor hereby releases, acquits and forever discharges the State of Iowa, the Board, their officers, directors, employees and agents from any and all liability whatsoever, including all claims, demands and causes of action of every nature and kind affecting the undersigned that it may have or ever claim to have relating to information, data, opinions, and references obtained by the Board or the Evaluation Committee in the evaluation and selection of a successful Contractor in response to the RFP.

The Contractor authorizes representatives of the Board or the Evaluation Committee to contact any and all of the persons, entities, and references which are, directly or indirectly, listed, submitted, or referenced in the Contractor's Proposal submitted in response to RFP.

The Contractor further authorizes any and all persons and entities to provide information, data, and opinions with regard to its performance under any contract, agreement, or other business arrangement, its ability to perform, business reputation, and any other matter pertinent to the evaluation of the Contractor's Proposal. The Contractor hereby releases, acquits and forever discharges any such person or entity and their officers, directors, employees and agents from any and all liability whatsoever, including all claims, demands and causes of action of every nature and kind affecting the Contractor that it may have or ever claim to have relating to information, data, opinions, and references supplied to the Board or the Evaluation Committee in the evaluation and selection of a successful Contractor in response to RFP.

A photocopy or facsimile of this signed Authorization is as valid as an original.

Sincerely,

Geode Environmental, LLC

[Printed Name of Contractor Organization]

[Name and Title of Authorized Representative]

10/27/15

Attachment 3 Checklist of Submittals

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Attachment #3 Checklist of Submittals

	ECTION RESPONSE INCLUDED Yes No		LOCATION OF RESPONSE	
NIF NLI LRENGE SLUTAON				
3.1.1. Number of Copies of the Bid Proposal	X		Transmittal Letter (cover)	
3.1.2. One (1) Public Copy with Confidential Information Excised		X	NA	
3.2.1 Transmittal Letter	X		Cover	
3.2.2 Table of Contents	X		pii	
3.2.3 Executive Summary	X		Section 1, pp1-2	
3.2.4 Technical Specifications	X		Section 2, pp2-10	
3.2.5 Vendor Background Information	X		Section 3, pp10-11	
3.2.6 Experience	X		Section 4, pp11-15	
3.2.7 Personnel & Equipment	X		Section 5, pp15-20	
3.2.7.5 Subcontractors	X		Section 6, pp20-21	
3.2.8 Financial Information	X		Section 7, pp21-22	
3.2.9 Termination, Litigation, Debarment	X		Section 8, p22	
3.2.10 Acceptance of Terms and Conditions	X		Section 9, pp22-23	
3.2.11 Certification Letter	X		Section 10, p23	
3.2.12 Authorization to Release Information	X		Section 11, p23	
3.2.13 Firm Proposal Terms	X		Section 12, p23	
		ļ		

Attachment 4 Letters of Reference



McSadden Environmental, Inc.

722 SW Kennybrook Drive, Grimes, IA 50111-2130 E-mail: kmcfadden@dwx.com • Phone & Fax: 515-986-1755

October 25, 2015

James Gastineau, Deputy Administrator Iowa Underground Storage Tank Fund Program 2700 Westown Parkway, Suite 320 West Des Moines, IA 50266

RE: Letter of Reference RFP Number: RBCA 1509-01; RFP Title: Environmental Support Services; Section 3.2.6.5

Dear Mr. Gastineau:

McFadden Environmental, Inc. (McFadden) is providing this Letter of Reference for Geode Environmental, LLC, Ray Widder (Geode) and is submitted for favorable consideration regarding the aforementioned proposal submittal. Geode's environmental services to McFadden, the IDNR LUST section and the State of Iowa were procured in a competitive environment (RFP No. ESD7512KAnder110133–RBCA Review Assistance).

McFadden is knowledgeable of Geode's satisfactory and reliable performance of subcontracted RBCA Review Assistance services. Beginning in 2011 and to date, Geode completed approximately 154 RBCA report reviews consisting of 50 Tier 2 Reports (or revised Tier 2 reports), 82 Site Monitoring Reports, 11 Overexcavation reports, and 11 reports (Tier 1 Reports; WaterLine Evaluations; Laser Induced Fluorescence). Services performed included but not limited to: application of Tier 2 review checklist, SMR review checklist, and Overexcavation review checklist; identification of completeness and accuracy issues; based on review particulars demonstrated sound judgment when selecting the appropriate standard letter template (accept/reject); crafted draft letter to the responsible party for DNR review; prepared deliverables.

During assigned reviews, on behalf of the DNR LUST section, Geode has consistently demonstrated and applied in-depth knowledge of DNR methods, procedures for investigation and evaluation of leaking UST sites consistent with IAC 567 – Chapter 135 and guidance.

Geode is thorough and careful performing RBCA reviews recognizing project decisions have environmental, public health, and economic consequences. Geode's RBCA Review Assistance decisions are made consistent with and in accordance with the Iowa Risk Based Corrective Action rule and guidance.

If you have any questions please contact me at (515) 986-1755 (email kmcfadden@dwx.com).

Sincerely, McFadden Environmental, Inc.

Meleden

Ken McFadden, IGP #1097

/kmm

October 23, 2015

Iowa Underground Storage Tank Fund Program 2700 Westown Parkway, Suite 320 West Des Moines, IA 50265 Attn: James Gastineau, Deputy Administrator

Re: Letter of Recommendation for Geode Environmental, LLC Environmental Contractor Services for UST Investigations RFP Number: RBCA 1509-01

Dear Mr. Gastineau:

Array Environmental, Inc. (Array) is submitting this letter of recommendation for Geode Environmental, LLC pursuant to the referenced request for proposal for Environmental Contractor Services for UST Investigations for the Iowa Underground Storage Tank Fund Program.

Array has collaborated with Mr. Ray Widder of Geode Environmental since 2006 on a variety of UST Investigation projects that include RBCA Tier 1, and Tier 2 Site Investigations and Remedial Design and Installation Activities. Our collaboration has proven to us Mr. Widder is well versed in the IDNR's regulation of leaking petroleum tank sites, operations and maintenance of varying types of remedial equipment, and the State's waste handling policies.

I am happy to provide this recommendation and confident Geode Environmental will provide professional, efficient, and value added services to your project needs.

Sincerely, Array Environmental, Inc.

watschinteshande.

Dustin Cruikshank, P.G.



October 25, 2015

To Whom it May Concern:

I am writing this letter as a reference for Geode Environmental for the Environmental Support Services Request for Proposal. Geode Environmental has provided environmental support services for several of our underground storage tank sites over the past eight years. He has assisted us with site assessments, RBCA tier 1 and tier 2 reports, and corrective action recommendations. Geode Environmental is very knowledgeable of the Iowa underground storage tank program requirements, and I recommend them for the Environmental Support Services project.

Please feel free to contact me with any questions.

Sincerely,

Julie Oriane

Julie Oriano Principal Environmental Scientist Stanley Consultants, Inc. 2658 Crosspark Road, Suite 100 Coralville, IA 52241 319.626.5330 (phone) orianojulie@stanleygroup.com

Attachment 5 Resumes of Key Personnel

RAYMOND WIDDER

EDUCATION:

Attended Cornell College, Mount Vernon, IA from 9/86 to 5/90 Graduating with a Bachelor of Arts in Geology Attended Iowa State University from 9/94 through 5/97

Relevant Graduate Coursework: Hydrogeology, Fields Methods of Hydrogeology, Contaminant Hydrogeology, Computer Modeling of Groundwater Flow and Pollution, Soil and Groundwater Remediation, Hazardous Waste Management, Environmental Geochemistry, Organic Chemistry

OSHA TRAINING

40 Hour OSHA Certified, Completion of yearly 8 Hour Hazwoper refresher course (updated 2015)

CERTIFICATIONS

Iowa Certified Groundwater Professional #1624

EMPLOYMENT HISTORY

April 2006 to current: Owner/Geologist, Geode Environmental, LLC, Johnston, IA Contact: Ray Widder, 515-309-2183

- Landfarm Closures through soil sampling and reporting to State entities.
- Underground Storage Tank and Product Piping Removal and associated reporting.
- Risk Based environmental investigations. Included site evaluation, risk analysis through Tier 2 process and classification.
- Corrective Design and Implementation of in-situ treatment systems, overexcavation, and water line removal.
- Phase I/II Environmental Site Assessments
- Chapter 133 Site Assessment for Chlorinated Solvents release.
- Sub-contractor for review of leaking tank risk based reports.

August 2011 to current: Project Scientist (part-time), Environmental Compliance Services, Inc., Woodstock, GA Contact: Max Burmeister, 770-926-8883x126

- Project management of Iowa portfolio.
- Underground Storage Tank and Product Piping Removal and associated reporting.
- Risk Based environmental investigations. Included site evaluation, risk analysis through Tier 2 process and classification.

April 2006 to December 2011: Project Scientist (part-time), Delta Environmental/Antea Group, Davenport, IA Contact: Brent Puck, 563-355-9785

• Technical document review, report preparation of Iowa Risk Based Corrective Action reports, technical support for development of staff.

September 1990 to March 2006: Seneca Environmental Services, Inc., Des Moines, IA

- Technical document review and support for development of staff.
- Design of remediation systems using IDNR's Corrective Action Design Report.
- Management of consulting for Des Moines branch. Includes management of Project Managers and Staff Scientists.
- Project Management of high profile projects such as RI/FS for a Superfund site and Chapter 137 reports for 30 agri-chemical release sites.
- Preparation of proposals and budgets for large scale projects with a primary focus on remedial design projects.
- Site characterization for release of chlorinated solvents in a RAC 2 area (Nebraska) and multiple Iowa projects.
- Completion of Phase I and Phase II Environmental Site Assessments related to property transfers.
- Management of numerous Underground Storage Tank (UST) projects involving initial site checks, Site Cleanup Reports, tank closures and emergency response recovery activities. Proposal to remediation system monitoring of projects, including completion of all field related activities, data reduction and report preparation.
- Supervision of drilling crews, field crews, remediation technicians, staff geologists and sub-contractors.
- Completion of Site Check reports in order to qualify clients for the Iowa Underground Storage Tank fund.

PROFESSIONAL REFERENCES

Ken McFadden McFadden Environmental, Inc. 722 SW Kennybrook Grimes, IA 50111 515-986-1755 Murray Nelson, COO Seneca Companies 4140 NE 14th St. Des Moines, IA 50313 515-262-5000 Dustin Cruikshank Array Environmental, Inc. 27304 State St. Valley, NE 68064 402-359-2233

YEARS OF EXPERIENCE RELATED TO SCOPE OF SERVICES

Mr. Widder's employment history of 25 years is related to the completion of investigations on Undergound Storage Tank removals, releases, risk assessment and risk abatement.

JERROD ROBINSON

2414 Birch Street ♦ Granger, IA 50109 ♦ Cell Phone: 515-782-0876 ♦ Email: jerrod-robinson@hotmail.com

PROFESSIONAL EXPERIENCE

Owner/Dealer, FireHawk Seeds, LLC - Granger, IA, November 2012 to Present

- Originally started as an Authorized Independent Dealer/Representative for seed company selling soybeans and corn. (No longer performing these duties)
- Currently an Authorized Independent Contractor for environmental companies performing activities such as soil and groundwater sample collection.

Loss Control Inspector, Rounds & Associates - Urbandale, IA, August 2011 to February 2012

- Trained and certified for Underground Storage Tanks (UST) & Aboveground Tanks (AST)
- Reviewed inspection reports and photos for accuracy of deficiencies
- ♦ Inspected sites in Iowa and Missouri
- ♦ Worked independently during inspections

Programs Director, MPS Engineers - West Des Moines, IA, March 2009 to February 2011

- Operated equipment (dump truck, backhoe, skid loader, and mini-excavator)
- Acquired new and sustained current clients through sales meetings and cold calling techniques
- Managed personnel crews from one to ten people
- Provided technical assistance to clients, regulatory and financial agencies related to projects
- Researched and scheduled meetings with prospective clients

Project Manager, Barker Lemar Engineering Consultants - West Des Moines, IA, August 2007 to Feb. 2009

- Supervised all project details including proposal preparation, planning/scheduling, budget tracking, report preparation and invoicing on projects up to \$250,000
 - Created reports and correspondence for regulatory and funding agencies
- Operated drilling equipment (SIMCO 2800 HS HT and CME 55)
- Managed environmental projects of various scopes by providing technical geological assistance

Owner/Geologist, Robinson Contracting, Inc. - Granger, IA, June 2000 to August 2007

- ♦ Facilitated company marketing strategies and handled client acquisition/retention activities
- Managed purchasing of equipment and supplies, including vendor contract negotiations
- ♦ Invoiced up to \$400,000 annually

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- Developed small business plan and pricing structure for competitive bidding process to clients
- Supervised personnel crews from one to three people during field activities
- ♦ Performed environmental drilling at UST sites in several states including IA, IL, KS & MO
- ♦ Collected soil and groundwater samples
- A Responsible for day to day management of the corporation and 20 company clients

Progect Manager/Geologist, MPS Engineers - West Des Moines, IA, April 1997 to June 2000

- ♦ Scheduled and supervised field activities for 1-5 people
- Provided technical geological assistance to regulatory agencies
- ♦ Managed all field and office activities for Kansas assessment operations

Geologist, Seneca Environmental Services - Des Moines, IA, February 1996 to April 1997

- Assisted with emergency responses for Diesel spills and operated remediation trailer
- Assisted with maintenance of Soil Vapor Extraction remediation system at a gas station
- Analyzed headspace samples on Photoionization Gas Chromatograph for BTEX and Chlorinated Solvents

JERROD ROBINSON

2414 Birch Street ♦ Granger, IA 50109 ♦ Cell Phone: 515-782-0876 ♦ Email: jerrod-robinson@hotmail.com

Project Geologist, EnvironManagement - Ames, IA, January 1994 to February 1996

- Assisted with planning and organizing of field activities at a hazardous waste site
- Obveloped an Asbestos Management Plan for a manufacturing facility in Missouri

 Managed field activities and office duties including investigated, wrote and assembled several Site Cleanup Reports (SCR) for 2 Iowa Community Remediation Projects (CRP)

EDUCATION_

Bachelor of Arts in Environmental Geology with Business Administration Minor, University of Iowa, Iowa City, Iowa

TRAINING____

- ♦ 1910.120 40 hour OSHA Hazardous Waste Certification
- ♦ 1910.120 8 hour OSHA Hazardous Waste Refreshers
- ♦ Commercial Drivers License (CDL) Class B with Air Brake Endorsement
- ♦ CPR/First Aid Certified
- ♦ Firefighter I Certification
- State of Iowa/IDNR Compliance Inspector Installation Inspector Remover Certification
- ♦ Designated Class A & B UST Operator Trained
- Steel Tank Institute (STI) SP001 Aboveground Tank (AST) Inspector, Level 1 & 2 Certified
- Steel Tank Institute (STI) Cathodic Protection (CP) Tester Certification
- A Xerxes Fiberglass Underground Storage Tank (UST) Installation Certification
- Ameron Fiberglass Pipe Installation Trained, Dualoy 3000/L and 3000/LCX Pipe

Geode 10/27/2015

ATTACHMENT # 4 Exhibit A Schedule of Costs and Fees

Payment Terms

Per Iowa Code § 8A.514 the State of Iowa is allowed sixty (60) days to pay an invoice submitted by a vendor. What discount will you give for payment in 30 days? Response: Geode will not provide a discount for payment within 30 days.

Cost Proposal

The Contractor shall prepare and submit a Cost Proposal to include the Contractor's Schedule of Costs and Fees for typical environmental work as described in Section 3.3.1 that may be associated with the services described in this RFP or those services not identified in this RFP but which may be necessary for completion of the contract requirements. The schedule shall include a listing of standard rates and reimbursable expenses or fees that are expected to be paid by the Board and based on net 60 days payment terms. These are all subject to review, negotiation and a maximum, as agreed. The Schedule of Costs and Fees will be used as a starting point for Service Agreement negotiations.

1. Report Costs (completed per Department requirements)

(a) RBCA Tier 1	\$1,200
(b) RBCA Tier 2	\$1.800
(c) Site Monitoring Report	\$440
(d) Free Product Assessment Report	\$220
(e) Free Product Recovery & Reporting:	
1. Mobilization (per visit):	\$220 \$50 \$1.38 \$75 % ^a
2. Mobilization Costs	
(a) Mobilization including mileage / vehicle for field staff	\$220
(b) Mobilization including mileage / vehicle for drilling rig & crew	\$800 ^b
3. Receptor Survey	\$250
4. Pathway Evaluations (RBCA Tier 2 / SMR - itemize)	\$250ea
5. Soil Borings	<u>\$25000</u>
(a) Soil boring cost, 25 ft. deep per borehole	\$390 ^{c,d}
(b) Additional cost per ft. for borings greater than 25 ft. deep	\$20 ^e
6. Monitoring Wells (inclusive of boring costs)	
(a) Monitoring wells, 25 ft deep per well	\$1,040 ^{c,d}
(b) Additional cost per ft. for monitoring wells greater than 25 ft. deep	\$35 ^e

7. Soil and Groundwater Sampling

	(a) Groundwater sampling – collection and analytical costs	
	1. Method OA-1, MtBE, per sample	\$133
	2. Method OA-1, per sample	\$105
	3. Method OA-2, per sample	\$40
	4. Method OA1, MtBE, OA-2, per sample	\$173
	(b) Soil sampling – collection and analytical costs	
	1. Method OA-1, MtBE, per sample	\$118
	2. Method OA-1, per sample	\$90
	3. Method OA1, OA-2, per sample	\$40
	4. Method OA1, MtBE, OA-2, per sample	\$158
	(c) Plugging of monitoring wells	\$150ea
	(d) Completion of monitoring wells abandonment form	\$0
8. 5	Sampling of receptors including water lines, drinking water wells, non-drink analytical costs	ing water wells – collection and
	(a) Method OA-1, MtBE, per sample	\$133
	(b) Method OA-1, per sample	\$105
	(c) Method OA-1, OA-2, per sample	\$40
	(d) Method OA-1, MtBE, OA-2, per sample	\$173
9.	Soil Gas Points @ 10 ft. per point	\$450
10.). Soil Gas sampling – collection and analytical costs (NIOSH 1501), per sam	ple\$150
11.	I. Hydraulic Conductivity Testing (per Department requirements), each tes	st\$120
12.	2. Access Agreements (neighboring properties)	\$120
13.	3. Utility Notifications (if no RBCA report is completed)	\$120
14.	4. Iowa Groundwater Professional, hourly rate	\$60

Other Items (identify and explain when item applies)

^aAdditional fees for mobilization of disposal crew will be assessed on a case by case basis with an attempt to mobilize while the crew is "in the area"

^bThis fee may be utilized as additional crew and equipment to hand auger borings/wells.

^cDoes not include bedrock drilling, to be bid on case by case basis due to unusual equipment and additional time. ^dIn the event of 2 or less bore/well completions, additional setup fees may apply.

^e40 foot or less total depth pricing. Greater depths require additional auger and core removal time.

COST PROPOSAL RFP NUMBER: RBCA 1509-01 RFP TITLE: ENVIRONMENTAL SUPPORT SERVICES

Contractor's Schedule of Fees			
Item Description	Unit of Measurement	Cost Per Unit	
Per Diem ^a	MAN/DAY	\$135	
Water or Oil/Water Probe	DAY	\$20	
Mileage	MI	\$0.65	
Surveying Equipment	DAY	\$50	
Organic Vapor Meter	DAY	\$50	
Metal Detector	DAY	\$50	
Bedrock Drilling	FT	Cost + 15%	
Hand Auger	DAY	\$25	
Unspecified Subcontracting	EA	Cost + 15%	

Contractor's Schedule of Fees

^aThis item will be applied as necessary during drilling events.

Exhibit C Criteria for Cost Evaluation

The following is a list of factors that specifically will be considered in the cost evaluation of the proposals received.

For the cost comparison evaluation, an example project will be considered using the costs identified in the Contractor's Proposal, Exhibit A. The comparison will be based on the preparation of an Iowa RBCA Tier 2 SCR, free product recovery, and site closure for a fictional "site". The scope of work for the evaluation will consist of the following:

		Unit Rate	Units	Cost
Investigation				
Personnel Mobilization, 2 events	(Item 2(a))	<u>\$220</u>	2	<u>\$440</u>
Drill Rig Mobilization, 1 event	(Item 2(b)	<u>\$800</u>	1	\$800
Receptor Survey, 1 event	(Item 3)	<u>\$250</u>	<u>1</u>	<u>\$250</u>
Soil Borings (25 ft) x 6 borings	(Item 5(a))	<u>\$390</u>	6	<u>\$2,340</u>
Monitoring Well (25 ft) x 3	(Item 6(a))	<u>\$1,040</u>	3	\$3,120_
Soil Samples (OA-1, mtbe) x 6	(Item 7(b)(1))	<u>\$118</u>	6	<u>\$708</u>
Groundwater Samples (OA-1, mtbe)	x3 (Item 7(a)(1))	<u>\$133</u>	3	<u>\$399</u>
Off-site access requests, 1 request	(Item 12)	<u>\$120</u>	1	<u>\$120</u>
Sampling of 3 water lines (OA-1, mth	be) (Item 8(a)	<u>\$133</u>	3	<u>\$399</u>
RBCA Tier 2 report	(Item 1(b))	<u>\$1,800</u>	1	<u>\$1,800</u>
Free Product (FP) Recovery				
Mobilization x 3 events	(Item 1(e)(1))	<u>\$220</u>	3	<u>\$660</u>
Measurement & recovery, 3 wells/ev	ent (Item1(e)(2))	<u>\$150</u>	3	<u>\$450</u>
FP Recovery Report, 1 report	(Item 1(e)(4))	<u>\$75</u>	1	<u>\$75</u>
Plugging of monitoring wells (3 wells)	(Item 7(c))	<u>\$150</u>	3	<u>\$450</u>
Well Abandonment Forms (3 wells)	(Item 7(d))	<u>\$0</u>	3	<u>\$0</u>
Other items (identified by Contractor	.)			
			Total Cost:	<u>\$12,011</u>

The Board reserves the right to reject any proposal they feel contain excessive costs.

NOTE: The Contractor should not assume the above to be a typical assignment. Project tasks will vary greatly and may include limited investigations requiring fewer than three borings or monitoring wells, or may require more tasks than that noted.

	Weighting
Cost Proposal Rating Criteria	Factor
Cost Comparison Evaluation	<u>20</u>
TOTAL (Cost Proposal)	20